Oil, Paint and Drug Reporter

THE CHEMICAL MARKET AUTHORITY

Volume 137
Number 5

SINCE 1871

JANUARY 29, 1940

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Chemical Workers Show Decrease

Employment Off 0.4 Percent—Payrolls Show No Change—Both Are Above 1938 Figures

Employment in factories engaged in the manufacture of chemicals and related products in the United States noted a decrease of 0.4 percent from November 15 to December 15, according to the Bureau of Labor Statistics. At the end of the monthly period employment was 6.9 percent above the corresponding level of 1938. Payrolls showed no change from November 15 to December 15, but stood 11.7 percent above the same period in 1938.

The Bureau of Labor Statistics index number for factory employment in the chemical group of industries December 15 was 122.2 (100 equals 1923-1925 average), compared with 122.6 for November 15 and 114.3 for December last year. For payroll totals the index number was 133.0 (same basis), compared with 133.0 for November and 119.3 for December, last year.

The bureau's general index numbers for all manufacturing industries December 15 showed the following comparisons:—

	Dec. 1939.	Nov. 1939.	Dec. 1938.
Employment	104.0	103.8	94.0
Payroll totals.....	103.9	101.8	87.1

Employment in the chemical group of industries was 17.4 percent above the average for all industries. Payroll totals were 28 percent above the general average for all industries.

—*Continued on page* 48

Disinfectant Labeling For Potency Asked

OPD Washington Bureau
January 24, 1940

An amendment to the insecticide act to require a statement of the phenol coefficient on the label of a disinfectant to which a phenol coefficient is applicable has been asked of Congress by the Food and Drug Administration.

It is explained that when the insecticide act was passed the phenol coefficient test was not known, but it is now considered a proper test of the fungicidal power of certain types of disinfectants, and the administration feels that the phenol coefficient, where there is one, should be disclosed on the label of a disinfectant.

Artist's Oil Paints Standards Proposed

OPD Washington Bureau
January 22, 1940

Proposed commercial standards for artist's oil paints will be discussed at a public hearing called by the National Bureau of Standards for 10:00 a.m. February 9 in the Museum of Modern Art, 11 West Fifty-third street, New York.

Commercial standards for artist's oil paints were prepared by the Bureau of Standards at the request of the paint testing and research laboratory of the Massachusetts Works Projects Administration, and have been circulated to manufacturers, distributors, and users, whose comments have been

—*Continued on page* 34

TVA to Spend $6,500,000 On Fertilizer Program

OPD Washington Bureau
January 22, 1940

The Tennessee Valley Authority plans to spend a total of $6,507,000 on its fertilizer program next year; although the budget for the fiscal year ending June 30, 1941, as approved by the house last week in passing the independent offices appropriation bill, itemizes the expenditure at only $3,707,000.

The discrepancy is attributable to the way in which TVA keeps its accounts, to an expected income of $2,750,000 through the sale of concentrated superphosphate to the Agricultural Adjustment Administration, and to a contemplated reduction of $50,000 in its fertilizer inventory.

The TVA budget has two items—an asset account, and an income and expense account. The asset account for the 1941 fiscal year contemplates an expenditure of $24,000 for phosphate reserves and rights and $1,040,000 for new plants and equipment, which, with a reduction of $50,000 in fertilizer inventory, leaves a balance of $1,014,000. The income and expense account contemplates an expenditure of $3,659,000 for fertilizer manufacturing, which is largely offset by expected sales to the AAA; but other items bring this account to a total of $2,693,000. Some of these additional items are for research and small-scale production tests, farm tests and demonstrations, controlled soil and fertilizer investigations, transportation costs relating to fertilizer distribution, and soil inventories.

Construction of Plants

Hearings on the appropriation bill brought out the fact that the TVA contemplates completing its present plans for constructing fertilizer producing plants within two years, and that for 1942 an appropriation of only about $150,000 will be needed for ultimate completion. Of the $1,040,000 carried in the asset account for new construction, TVA plans to spend $793,000 to complete its washing plant and to bring its agglomerating plant to within two-thirds of completion. It will also spend $147,000 for improvements on the plant which is now producing concentrated superphosphate and calcium metaphosphate, and the balance is an overhead item of $100,000.

By decreasing its fertilizer inventory $50,000, TVA brings its contemplated 1941 expenditures for its assets account to $1,014,000, which represents a decrease of $52,000 under the estimate for 1940 and an increase of $91,000 over the actual expenditure for 1939. By the end of the fiscal year 1941 the total investment in assets accounts for the fertilizer program will be $8,681,000, of which $1,389,000 will have been written off to depreciation.

The 1941 estimate provides for substantial completion of all major plant items required to secure a completely integrated plant which will be implimented in such a way that TVA can, independently, begin with raw phosphate matrix from its own reserve, and after processing it, deliver fertilizer in bags ready for shipment. The authority has scheduled its fertilizer plant construction program to achieve this objective by June 30, 1941, rather than a later date, because of what it considers to be the importance of hav-

—*Continued on page* 49

Pyrethrum Labeling Brought Under Law

OPD Washington Bureau
January 25, 1940

A notice that after September 1, 1940, all pyrethrum powder and products containing it must be labeled to show the percentage of pyrethrins present was issued to the trade today by the Food and Drug Administration. The notice is as follows:—

The insecticide act of 1910 provides (section 8) that if an insecticide consists in part of an inert substance (or substances) which in itself does not prevent, destroy, repel, or mitigate insects, its label must bear a plain and correct statement of the names and percentage amounts of each and every inert ingredient or, in lieu thereof, a plain and correct statement of the names and percentage amounts of each and every active ingredient together with the total percentage of the inert ingredients.

In the case of plant materials the actual constituent, or constituents, of the plant material that is toxic to insects is held to be the active ingredient, and this provision of the law has, in general, been applied to such products in the past. One exception has been pyrethrum powder or insect powder, the reason being that until comparatively recently the ingredients to which the powder owes its activity as an insecticide had not been identified, and after their identification a considerable time elapsed before satisfactory methods for their quantitative determination had been developed. The active ingredients have been found to be two closely related esters, which have been designated pyrethrin I and pyrethrin II, and methods have been worked out for their determination.

In view of these developments the administration is now in a position to put into effect the provision pertaining to a statement of ingredients as outlined in section 8 of the insecticide act of 1910.

Since pyrethrin I and pyrethrin II are so closely related chemically, it will not be required at present that the percentage of each be stated separately. The following form of statement, which should appear prominently on the front or main panel of the label, will be accepted as in compliance with the law.

Active Ingredients
Pyrethrins —— Percent
Inert Ingredients —— Percent
Total, 100 Percent

The correct values are to be inserted in the blank spaces indicated.

The methods used by the Food and Drug Administration for the determination of the pyrethrins in pyrethrum powder are the Holaday modification of the mercury reduction method for pyrethrin I. These methods have been adopted by the Association of Official Agricultural Chemists and will appear in "Official and Tentative Methods of Analysis of the Association of Official Agricultural Chemists," the fifth edition, of which is now in preparation.

The same principles of labeling will apply to insecticides containing pyrethrum powder or pyrethrins as to pyrethrum powder itself. In order that the trade may be given sufficient time to bring about a compliance with this notice, its active enforcement will not be put into effect until September 1, 1940.

Bromine to Be Made By Potash Concern

The American Potash & Chemical Corporation, this city, is installing facilities at its plant in Trona, Calif., to recover bromine from products resulting from the evaporation of Searles Lake brine, and expects to commence production of both liquid bromine and alkali bromide during the coming Spring.

The bromine concentration in Searles Lake brine is about twelve times that of sea water, and since large quantities of brine are processed in the Trona plant for the recovery of potash, borax, soda ash, salt cake, etc., a considerable amount of bromine is

—*Continued on page* 37

Selecting and Training Executives For the Chemical Industry

By Dr. W. S. Landis

Vice-President of the American Cyanamid Company

Address given before the American Institute of Chemists, January 19, 1940, in New York

In the recent past there has been much publicity based on the false idea that modern corporate management had failed in its general obligations to the welfare of the nation. Most of the criticism was of political origin, some from academic circles, though neither group had the slightest experience or acquaintance with the subject. Far too much of the criticism had its origin in the Communist Manifesto of Karl Marx, and simply selected business management as a whipping-boy, furnishing thereby a pretext for a subversive propaganda to stir up class strife with the ultimate aim of destroying our democratic form of government. It is an exact execution of the Marx strategy, just as the author himself designed it. Those who, whether they knew it or not, were serving as his agents, have been apt. They have penetrated high places. They have followed the program first outlined by Marx himself. And they have done a lot of harm that will take years for recovery.

In recent years, decree and law carrying out the doctrinal principles of Marx have followed in an almost unending stream. All this has greatly complicated the problem of efficient business management. Very few signs of abatement of this subversive flow are yet in sight, and in consequence corporate management has ahead of it a still more difficult future. Not only are we facing the so-called "normal" hazards of business, but in addition we must combat a distinctively new, for us, form of destructive agency. May I

Dr. W. S. Landis

emphasize that these are not too emphatic statements?

It, therefore, is proper that here and now we should give serious attention

—*Continued on page* 44

Closing Markets

London Closing Cable

LONDON, Jan. 26, 1940

Quicksilver advanced to $207 per flask, ex-warehouse; sterling quotation, £51 to £53, secondhands.

Cottonseed Oil Quiet

Refined cottonseed oil futures were quiet on Friday and price changes were narrow. Closing quotations were moderately lower than at the end of the previous week with May 6.90c. and July 7.01c. Southern markets for cottonseed products were quiet and steady. Sales of tallow were reported at 5½c. per pound delivered and bids for additional lots at the same figure were reported to have been rejected.

Copper Further Reduced

Price of electrolytic copper was reduced ⅜c. to the basis of 11⅝c. by a leading custom smelter late in the week. This followed the reduction earlier in the week when all factors cut to 12c. per pound. So far other primary producers have not followed the latest reduction. There was very little buying here. Export price ranged from 11.50c. to 11.60c. per pound, f.a.s. Outside market was from 11.55c. to 11.60c. per pound.

Foreign Trade Rules

Information recently published by the Department of Commerce in foreign tariff and related trade regulations include the following:—

Pharmaceuticals. — Venezuela has revised the regulations governing the importation and sale of pharmaceutical products.

Phosphate Rock.—The exportation of phosphate rock from Gilbert and Ellice Islands to other places within the British Empire is prohibited, except under license.

Radioactive paints:—Reich Chemical Board forbids the use of luminous pigments and paints which contain radium, mesothorium, and radiumthorium except for pocket and wrist watches for men with casings of stainless steel or other inexpensive materials, for compasses and technical instruments.

Salt:—The importation of salt into Norway has been made subject to license.

Acetylene Ass'n to Meet In Milwaukee April 10-12

The fortieth annual convention of the International Acetylene Association will be held in the Schroeder hotel, Milwaukee, April 10-12. The program will include a scientific forum on oxy-acetylene cutting of metals, a series of round-table discussion meetings, and, on each of the three days of the convention, a group of technical sessions, at which will be presented many interesting papers by outstanding technical men and experts in applications of the oxy-acetylene process of welding, cutting, and heat-treating.

Paint Credit Group Names 1940 Committee Chairmen

William L. Lang, newly elected president of the Paint and Allied Industries Credit Association, has appointed the various committees to serve during 1940, the chairmen of which committees are as follows:—

Auditing, S. Samuels, of the Eagle Paint & Varnish Works, Inc.; credit appraisal, F. Fromholz, of the Egan & Hausman Company; entertainment, Jas. A. Kenny, of Baer Bros.; grievance, H. C. Soffer, of the Paragon Paint & Varnish Corporation; membership, T. H. Kleine, of the Hilo Varnish Corporation; nominating, Victor Isaacs, of the Central Paint & Varnish Corporation; publicity, Wm. Rohs, of Colonial Works; receivables realization and recovery, Mr. Isaacs; resolutions and amendments, John C. Ball, of the M. Ewing Fox Company; uniform practice and special investigation fund, Mr. Forster; vigilance, Paul N. Knappen, of the Eagle Picher Sales Company; educational and promotional, M. B. Weinstock, of the M. J. Merkin Paint Company; and statistical, J. Monasch, of Lehman Bros.

Paint Styling Meeting

A meeting of the technical and fact-finding committee of the Council for Paint Styling will be held in William Penn hotel, Pittsburgh, Pa., February 27-28.

Chemical Prices at New High

Although there were a few more reductions than advances among the price changes made last week in the markets for heavy and fine chemicals, the advances carried the greater weight. This was particulacly attributable to substantial increases in the prices of quicksilver. Changes with respect to other metals were in the opposite direction, and copper sulphate was cheaper.

Buying was no heavier than in the preceding week, but the movement of materials into consumption continued gratifying. Export inquiries were narrower.

Prices were advanced on domestic and European quicksilver, tartaric acid, cream of tartar, rochelle salt, seidlitz mixture, grade 1 gum rosin, gum and steam-distilled turpentines, ground and leaf sumacs, East African wattle bark, and imported steamed bone.

Prices were reduced on electrolytic copper, copper sulphate, Straits tin, tetrachloride of tin, zinc, zinc dust, Argentine casein, J1 myrobalans, valonia beards and cups, dried blood at New York, hoofmeal at Chicago, imported nitrogenous fertilizer stuff, and tankage.

The REPORTER'S composite index number of prices for heavy and fine chemicals rose to 128.3 (100=average at August 1, 1914), its highest points since its inauguration seven years ago. In comparison with average prices in 1926 (as 100), the REPORTER'S index number is now 90.8, compared with 88.9 at this time last year and 89.8 in 1938.

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Roh Heads N.P.V.L.A. Executive Committee

Charles J. Roh, of the Murphy Varnish Company, Newark, was re-elected chairman of the executive committee at a meeting in the Pennsylvania hotel, this city, January 19. Thurlow J. Campbell, of Valentine & Co., was re-elected vice-chairman.

Dr. Henry A. Gardner, director of the scientific section of the association, reviewed the work of the section,

Charles J. Roh

and the committee discussed the new two-coat specifications of the Federal Housing Administration, the painting of asbestos shingles, and many other subjects of importance to the industry. The tung oil situation and the outlook for adequate supplies of drying oil was discussed. The committee received a report on the acquisition of the Levi P. Morton property in Washington, for the new association headquarters.

Manufacturers to Honor Research Workers

Climaxing a study that began last July, a group of eminent scientists have announced that nineteen inventors and research workers had been selected from among more than 1,000 nominees as the nation's outstanding creators of new products, new industries and new jobs during the last quarter century.

The nineteen, whose names have not been revealed, will be paid national tribute February 27 and designated "Modern Pioneers on the Frontier of Industry." They were judged by the committee of scientists on the merits of their inventions and discoveries as factors in the nation's progress and as contributors to the American standard of living during the last twenty-five years.

Dr. Karl T. Compton, president of the Massachusetts Institute of Technology and chairman of the group of scientists comprising the awards committee of the national modern pioneers committee, announced the selection. Dr. Compton said the names would not be made public until the date of the National "Modern Pioneer" celebration in New York February 27, when

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Weidlein Wins Award Of Pittsburgh A.C.S.

Pittsburgh, Jan. 24, 1940

Dr. Edward R. Weidlein, director of the Mellon Institute of Industrial Research, has been selected for the 1939 award of the Pittsburgh section of the American Chemical Society. Dr. Weidlein was awarded the prize for distinguished service to applied chemistry and to the chemical profession, especially in the Pittsburgh district.

Coming to Pittsburgh in 1912 as a senior fellow at Mellon Institute Dr. Weidlein was appointed assistant director in 1916 and became director in 1921. He has been active in section and national American chemical society affairs, serving as chairman of the Pittsburgh section in 1923 and as president of the national society in 1937.

Face Powder Boxes Must Not Be Slack

OPD Washington Bureau
January 24, 1940

Manufacturers of face powder have been warned by the Food and Drug Administration to use the "rule of reason" in designing packages containing both powder and a powder puff or a space in which the purchaser may keep her own puff, in order to stay within the slack-filled-package prohibition of the food, drug, and cosmetic act.

The question has been raised by toilet goods manufacturers because of the fact the administration has seized some face powder in allegedly deceptive packages, particularly those with indented bottoms, false bottoms, very high lids, and containing only a film of powder filling only a fraction of the depth of the container. In answer to inquiries, officials have stated that there is no objection to a box containing both powder and a puff provided the label states that a puff is included and provided the size of the puff bears a reasonable relationship to the quantity of powder included.

The question of selling a box of powder with sufficient space in the lid for the insertion of a puff has been disposed of, at least for the time be-

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Rubbing Alcohol Sales Restricted

OPD Washington Bureau
January 22, 1940

Drastic regulations to control the sale of rubbing alcohol were promulgated by the Treasury Department today, effective at once.

The regulations are the result of a study which internal revenue agents have been making throughout the country for nearly a year on the extent to which rubbing alcohol and bayrum have been diverted to beverage purposes. Nothing has yet been done about bayrum, and this subject its still under study.

The new regulation, designated "Treasury Decision 4963," is an amendment to regulations No. 3 of the Alcohol Tax Unit of the Bureau of Internal Revenue. It requires that rubbing alcohol may be sold only through wholesale and retail druggists or to hospitals and other legitimate users. Retail sales must be made only by registered pharmacists and on each sale the name and address of the retailer must be stamped across the label of the bottle. Retailers are prohibited from selling rubbing alcohol to persons who might be suspected of using it for beverage purposes. In addition,

—*Continued on page* 41

Export Embargoes May Be Sought

OPD Washington Bureau
January 24, 1940

Legislation to prevent the exportation of materials considered strategic, critical, or essential for national defense may be sought by the War Department and the Navy Department if the present "moral embargo" on such shipments fails to be effective.

Last October President Roosevelt and the Army and Navy Munitions Board called attention to the fact that the national defense position of the United States might be weakened by the exportation of strategic materials at a time when the government is atempting to build up reserve stocks of these materials. In another statement this week the board declared that, while there has been a cessation of abnormal exports of some deficiency materials, the situation in regard to others has become more difficult. The re-export of crude rubber and pig tin were mentioned particularly.

Although not mentioned officially, it is learned that other materials, the exportation of which in "abnormal quantities" is frowned upon, include antimony, tungsten, silk, manila fiber, manganese, chromium, quartz crystal, quicksilver, and quinine. It is understood that recent sales of considerable quantities of crude rubber and pig tin to Soviet Russia prompted the statement this week.

Chlorine Institute Re-Elects Officers

The Chlorine Institute re-elected officers at its annual meeting in the Chemists' Club, this city, January 24. The re-elected officers are:—President,

S. W. Jacobs

S. W. Jacobs, of th Niagara Alkali Company; vice-president, E. C. Speiden, of the Isco chemical division of Innis, Speiden & Co.; secretary-treasurer, Robert T. Baldwin.

The following directors were elected for two years:—

R. W. Hooker, of the Hooker Electrochemical Company; Mr. Jacobs, and Mr. Speiden.

The holdover directors are:—

N. E. Bartlett, of the Pennsylvania Salt Manufacturing Company; Thomas Coyle, of the R. & H. chemical department of E. I. du Pont de Nemours & Co.; John A. Kienle, of the Mathieson Alkali Works, Inc.; Louis Neuberg, of the Westvaco Chlorine Products Corporation; Eli Winkler, of the Columbus Alkali Corporation.

Oil Import Tax Cut Assailed at Hearing

OPD Washington Bureau
January 24, 1940

Fears that the domestic oil and coal industries will be crippled by a flood of petroleum imported by virtue of concessions contained in the Venezuelan trade agreement were expressed this week by spokesmen for coal and oil interests appearing before the house ways and means committee.

The committee, holding hearings on the proposal to extend for three years the powers of the President and the Department of State to negotiate reciprocal trade agreements, was told that Congress should consider ways and means of annulling the reduction in the excise tax on imported oil which under the Venezuelan trade agreement was generalized to most-favored-nations.

Wirt Franklin, of the Independent Petroleum Association, was particularly concerned by the "freezing" for three years of the excise tax on imported oil. He told the committee that the power of Congress to review the oil import situation at any time has been a powerful incentive to importers to cooperate with State regulatory bodies and domestic producers. Now that the Venezuelan trade agreement has wiped out that power for a period of three years, he said, the temptation to flood this country with cheap

—*Continued on page* 46

Westbrook Heads duPont Electroplating Research

L. R. Westbrook, formerly assistant director of the Cleveland, Ohio, experimental laboratory of the Grasselli chemicals department of E. I. duPont de Nemours & Co., has been appointed research manager of the company's electroplating division. In his new position Mr. Westbrook assumes charge of all electroplating research activities for the duPont company. He will continue residence in Cleveland.

Drug Act Labeling Applies To Retail Repackaging

OPD Washington Bureau
January 24, 1940

Retail druggists repackaging drugs purchased in bulk or in wholesale lots are violating the food, drug, and cosmetic act unless they label their packages in all respects as required of manufacturers shipping in interstate commerce, in the opinion of officials of the Food and Drug Administration.

While retailers are not ordinarily considered to be engaged in interstate commerce and were not subject to the old food and drug law (except in the District of Columbia), the new act which went into effect January 1, 1940, contains in section 301 (k) a provision making it an offense for any person to do anything resulting in a drug's being misbranded even after actual interstate movement has ceased. This provision was inserted by Congress so that a drug will reach the consumer properly labeled, and the Food and Drug Administration does not intend to permit labels to be removed from drugs just before reaching the consumer after they have been properly labeled when passing through the hands of manufacturers and retailers.

There have been as yet no court interpretations of section 301 (k) of the law, but the administration intends to enforce it whenever it has evidence that a retailer is repackaging drugs and selling them without the prescribed labels as to dosage, adequate warnings, and other provisions. There is no prohibition against a retailer's purchasing drugs in bulk and repackaging them for sale in small quantities under his own label provided there is full compliance with the food, drug, and cosmetic act. A number of instances have come to the attention of the officials where purchasers have asked for a drug under a manufacturer's brand-name and not on prescription and have been sold a package bearing only the retailer's label and no directions for use or other required information.

Phila. Drug Exchange Re-Elects Its Officers

In its seventy-ninth annual meeting January 23, the Philadelphia Drug Exchange re-elected its retiring officers as follows:—

President, E. Leidy Brendlinger, of the Dill Company, Norristown, Pa.

Vice-president, Charles E. Vanderkleed, of McNeil Laboratories.

Secretary, J. Mervin Rosenberger, of Smith, Kline & French, Inc.

Treasurer, Harold C. Halberstadt, of Shoemaker & Busch, Inc.

The exchange also re-elected as members of its board of directors R. G.

E. Leidy Brendlinger
Re-elected P.D.E. President

Anderson, George F. Aplin, R. A. Cain, Harry Z. Krupp, Walter P. Miller, jr., E. S. Paisley, Frank F. Law, and H. H. Whyte.

—*Continued on page 42*

Chain Drug Stores Ass'n To Meet Feb. 12-14

The program for the convention of Associated Chain Drug Stores, to be held in the Hotel Biltmore, this city, February 12-14, has been built around the subject of personnel. The association has set aside two sessions for meetings with manufacturers. Suppliers will also attend the sessions. The business portion of the program follows:—

Monday, Feb. 12

"Group Insurance and Pension Plans," G. E. McCann, Peoples Drug Stores, Inc.

"Employee Hospitalization," G. Powell Hamilton, Equitable Life Assurance Society.

"Handling Employees' Purchases," Geo. F. Babcock, Harvey & Carey, Inc.

"Store Managers' Part in Local Civic Affairs," Godfrey Lebhar, *Chain Store Age*.

—*Continued on page 42*

Johnson Gives $7,500 To N.Y.C.P. Fund

Robert Johnson, chairman of Johnson & Johnson, manufacturer of surgical dressings and other drug-trade articles, New Brunswick, N. J., has made a donation of $7,500 to the sustaining fund of the College of Pharmacy of the City of New York affiliated with Columbia University. The donation was presented through A. R. Clapham, president of Johnson & Johnson.

Announcing receipt of Mr. Johnson's donation, Dr. J. Leon Lascoff, a director of the college organization and a member of the sustaining fund committee, said that Mr. Johnson, fully cognizant of the importance of pharmacal education and the necessity of maintaining standards to fit men and women for a profession necessary to the public welfare, felt that it is most important that manufacturers, distributors, and individuals interested in the future of pharmacy should immediately recognize the financial distress of the New York College. Dr. Lascoff recalled that Mr. Johnson's father, Robert W. Johnson, founder of Johnson & Johnson, made in November, 1910, the first substantial bequest to be received by the college.

Mr. Johnson's gift is one of the most recent of many received from members of the drug industry, the donors including A. J. Bauer, the Bilhuber-Knoll Corporation, H. Bluestone, V. Chapin Daggett, Dr. Moritz Dittman, the Emerson Drug Company, Adolph Henning, the Heyden Chemical Corporation, Charles W. Holton, Dr. J. Leon Lascoff, the Lehn & Fink Products Corporation, S. B. Penick & Co., the Progressive Drug Company, Reed & Carnrick, Schieffelin & Co., George Simon, and a number of anonymous contributors.

Assay by Freezing Developed by B.of S.

OPD Washington Bureau
January 23, 1940

The presence of impurities in the amount of 0.01 percent or less can now be detected in any given substance by subjecting it to a freezing test recently perfected by scientists of the National Bureau of Standards, Lyman J. Briggs, director of the bureau, announced today.

This sensitive assay is accomplished by freezing the specimen under examination and then comparing its freezing range with that of a similar specimen, frozen under identical conditions, to which a small known concentration of another substance has been added.

An absolutely pure substance is characterized by the fact that it always melts or freezes at precisely the same temperature. When an impure substance freezes, the temperature in most cases decreases steadily from the time freezing begins until it is com-

—*Continued on page 30*

A Guaranty of MERCK *Purity & Reliability*

Another pure vitamin now available to the Pharmaceutical Manufacturer

RIBOFLAVIN MERCK

(6, 7-dimethyl-9-(1′-*d*-ribityl)-isoalloxazine)

Formerly known as Lactoflavin, Vitamin B_2 and Vitamin G

Notable advantages of RIBOFLAVIN MERCK are its

★ ★ **PURITY** ★ ★

Absence of physiologically inert substances.

★ ★ **COMPACTNESS** ★ ★

Facilitates manipulation and permits of conveniently small but adequate dosage.

★ ★ **UNIFORMITY** ★ ★

Constant in composition, potency and biologic activity.

Also available in pure crystalline form, are the following dietary essentials:

VITAMIN B_1 CRYSTALS MERCK

ASCORBIC ACID MERCK NICOTINIC ACID MERCK

Literature on Request

MERCK

FINE CHEMICALS FOR THE PROFESSIONS AND INDUSTRY SINCE

★ *1818* ★

MERCK & CO. INC. *Manufacturing Chemists* RAHWAY, N. J.

New York • Philadelphia • St. Louis *In Canada:* Merck & Co. Ltd., Montreal and Toronto

Current Market Quotations

January 26, 1940

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When not otherwise indicated, quotations are f.o.b. New York prices on large lots. Price changes and trends are noted in the market reports on other pages, with other informative comment. The locations of the several reports are indicated on page 4.

RECEIVED JAN 29 1940 LIBRARY THE CHEMISTS' CLUB

A

Acacia (see Gum, Arabic)
Acetal, dms., dlvd.....lb. .75 - 1.00
Acetaldehyde, 99%, dms., 55 & 110 gls., works..lb. .11 - —
5 & 10 gls., works.....lb. .14 - —
Acetamide, CP, kgs., 5,000 lbs., a year, works..lb. .36 - —
200-lb. lots, works.....lb. .38 - —
100-lb. lots, works.....lb. .55 - —
5 to 50-lb. lots, works....lb. .70 - —
tech., kgs., 5,000 lbs. a year, works..lb. .28 - —
200-lb. lots, works.....lb. .30 - —
100-lb. lots, works.....lb. .45 - —
5 to 50-lb. lots, works....lb. .50 - —
Acetanilide, tech., bbls.....lb. .22 - —
95%, bbls.....lb. .29 - —
USP, cryst., bbls., 2,000-lb. lots, lb. .32 - —
smaller lots.....lb. .33 - —
dms., 25-lb. lots.....lb. .38 - —
kgs., 2,000-lb. lots.....lb. .33 - —
smaller lots.....lb. .34 - —
powd., bbls., 2,000-lb. lots..lb. .30 - —
smaller lots.....lb. .31 - —
dms., 25-lb. lots.....lb. .36 - —
kgs., 2,000-lb. lots.....lb. .31 - —
smaller lots.....lb. .32 - —
Acetoacetanilide, dms.....lb. .47 - .65
Acetone, CP, dms., c.l., dlvd..lb. .07¼- —
l.c.l., dms., dlvd.....lb. .07¾- —
tanks, dlvd.....lb. .05¾- —
Methyl (see M).
Acetophenone, bots.....lb. 1.30 - 1.45
cns., 25 lbs.....lb. 1.15 - 1.25
dms., 100 lbs.....lb. 1.05 - —
Acetophenetidin, bbls., kgs., 1,000 lbs..lb. 1.00 - —
50 lbs.....lb. 1.02 - —
25 lbs.....lb. 1.05 - —
Acid, abietic, dms., c.l., f.o.b. all points in U. S. E. of and including Kans., Neb., N. D., Okla., S. D., Texas E. of Austin and Brownsville..lb. .08¾- —
l.c.l., same terms.....lb. .09 - —
Acetic, com'l or redist., 28%, bbls..100 lbs. 2.23 - 2.48
cbys.....100 lbs. 2.73 - 2.98
56%, bbls.....100 lbs. 4.15 - 4.40
cbys.....100 lbs. 4.65 - 4.90
70%, bbls.....100 lbs. 5.17 - 5.42
cbys.....100 lbs. 5.67 - 5.92
80%, bbls.....100 lbs. 5.89 - 6.14
cbys.....100 lbs. 6.39 - 6.64
glacial, nat., CP, cbys..100 lbs.14.00 - —
99.5%, bbls.....100 lbs. 7.62 - 7.87
cbys.....100 lbs. 8.12 - 8.37
tanks.....100 lbs. 5.00 - —
USP, bbls.....100 lbs.10.25 -10.50
cbys.....100 lbs.10.75 -11.00
synth., 99.5%, al. dms., 100 lbs. 8.43 - 8.68
cbys.....100 lbs. 8.93 - 9.18
USP, al. dms.....100 lbs.10.25 -10.50
cbys.....100 lbs.10.75 -11.00
pure, 30%, bbls.....100 lbs. 3.28 - 3.53
cbys.....100 lbs. 3.78 - 4.03
36%, bbls.....100 lbs. 3.66 - 3.91
cbys.....100 lbs. 4.16 - 4.41
60%, bbls.....100 lbs. 6.15 - 6.40
cbys.....100 lbs. 6.65 - 6.90
80%, bbls.....100 lbs. 7.68 - 7.93
cbys.....100 lbs. 8.18 - 8.43

Acetic acid price differentials above are for c.l. and l.c.l. quantities; the prices apply div'd at destination in the following States: Conn., Dela., D. of C., Md., Mass., N. J., N. Y., N. and S. Car., R. I., Penna., and Va. For all other States except Wash., Ore., and Calif., prices are f.o.b. works, frt. equalized.

Acetic, anhydride, dms., c.l., frt. alld..lb. .10¼- .11¼
l.c.l., dms., frt. alld.....lb. .12 - .13
Acetylsalicylic, special, USP, fine cryst., gran., 200-lb. bbls..lb. .45 - —
standard, USP, fine cryst., gran., 20 or 40 mesh, 200-lb. bbls...lb. .40 - —
powd., 80 mesh, 200-lb. bbls..lb. .40 - —
Anthranilic, refd., bbls.....lb. 1.15 - 1.20
tech., bbls.....lb. .75 - —
Arsenous, tech. (see Arsenic, White).
USP, powd., dms., kegs....lb. .22 - .25
Ascorbic, bots., dms.....oz. 2.75 - 3.00
Battery, cbys., c.l., E. works, 100 lbs. 1.60 - —
l.c.l., 25 or more, E. works, 100 lbs. 1.85 - —
10-25, E. works....100 lbs. 1.95 - —
1-9, E. works.....100 lbs. 2.55 - —
Benzoic, tech., bbls., 4,000 lbs. or more..lb. .43 - —
1,000 to 3,900 lbs.....lb. .44 - —
900 lbs. or less.....lb. .47 - —
USP, bbls., 4,000 lbs. or more, lb. .54 - —
1,000 to 3,900 lbs.....lb. .55 - —
900 lbs. or less.....lb. .58 - .59
dms., 4,000 lbs. or more..lb. .55 - .56
1,000 to 3,900 lbs.....lb. .56 - .57
900 lbs. or less.....lb. .59 - .60
Boric, tech., 99.5%, gran., bbls., contracts, 80 tons, dlvd., ton.106.00 - —
c.l., dlvd.....ton.111.00 - —
l.c.l., ex whse.....ton.118.00 -128.00
sks., contracts, 80 tons, dlvd..ton.96.00 - —
c.l., dlvd.....ton.101.00 - —
l.c.l., ex whse.....ton.108.00 -118.00
powd., bbls., contracts, 80 tons, dlvd..ton.111.00 - —
c.l., dlvd.....ton.116.00 - —
l.c.l., dlvd.....ton.123.00 -135.00
sks., contracts, 80 tons, dlvd..ton.101.00 - —
c.l., dlvd.....ton.106.00 - —
l.c.l., ex whse.....ton.113.00 -128.00

USP, $25 per ton higher.

Acid, butyric, 99%, dms., c.l., S. Charleston, W. Va..lb. .22 - —
l.c.l., same basis.....lb. .23 - —
tanks, same basis.....lb. .21 - —
Broenner's, bbls.....lb. 1.11 - —
Camphoric, cns.....lb. 7.00 - —
Capric, dms.....lb. .14 - .14½
Caporic, dms., works.....lb. .35 - .40
Carbolic (see Phenol).
Castor oil, split, dms.....lb. .17 - .17½
Chlorosulphonic, dms., c.l., works..lb. .0350- —
5-drum lots, works.....lb. .04 - —
single drum.....lb. .05 - —
tanks, works.....lb. .03 - —
Chromic, 99%, dms., c.l., dlvd. N. Y..lb. .15¼- —
l.c.l., 5 tons, dlvd. N. Y. lb. .15¾- —
dms., smaller quantities, dlvd. N. Y..lb. .16¼- .17¼
Cinnamic, refd., bots.....lb. 2.85 - 3.25
Citric, cryst., gran., bbls., car lots..lb. .20 - —
10,000-lb. lots, one shipt. lb. .20½- —
smaller lots.....lb. .21 - —
anhyd., gran., dms., 10,000 lbs., 1 shipt..lb. .23 - —
smaller lots.....lb. .23½- —

Citric acid quotations on powder are ½c. higher than on granular. Keg packing is ½c. higher than barrels. Prices are f.o.b. N. Y. Chicago and St. Louis deliveries are ½c. higher than N. Y.

Cleve's, bbls.....lb. .57 - —
Coconut oil, dms.....lb. .10¾- .11¼
Corn, dist., dms.....lb. .10 - .10¾
Cottonseed oil, dist., dms....lb. .09½- .10
tanks.....lb. .09 - —
Cresylic (coaltar) high-boil 50%, 210°-215°, dms., c.l., works, frt. equld..gal. .68 - —
l.c.l., same basis....gal. .70 - —
special blends (50%, 210°-215°), dms., c.l., works, frt. equld..gal. .71 - —
l.c.l., same basis....gal. .73 - —
low-boil (50%, 204°-206°), dms., c.l., works, frt. equld..gal. .68 - —
l.c.l., same basis....gal. .70 - —
special blends (50%, 204°-206°), dms., c.l., works, frt. equld..gal. .71 - —
l.c.l., same basis....gal. .73 - —
imported, pale, dms...gal. .70 - .75
Cresylic (petroleum), high-boil (240°-300°), non-return dms., c.l., works, East, U.S...gal. .40 - —
l.c.l., same basis....gal. .41 - .42
tanks, dlvd., East U.S.gal. .389 - —
medium-boil (222°-249°), non-return dms., c.l., works, East. U.S..gal. .46 - —
l.c.l., same basis....gal. .47 - .48
tanks, dlvd. East U.S..gal. .448 - —
Crotonic, bbls., dlvd.....lb. .21 - —
smaller containers, dlvd....lb. .50 - —
Diethylbarbituric (see Barbital).
Formic, dom., 90%, cbys., f.o.b. works, c.l..lb. .10½- —
l.c.l., 25 and over..lb. .11 - —
1-24 .....lb. .11½- —
Fumaric, bbls.....lb. .75 - —
Gallic, tech., bbls.....lb. .70 Nom.
N. F., VI, bbls., 200 lbs., 5 or more..lb. .77 Nom.
single bbls.....lb. .80 Nom.
fib. dms., 25 lbs.....lb. .81 Nom.
Gamma, bbls.....lb. .85 - —
Gluconic, tech., 50%, bbls., 500 lbs..lb. .20 - —
H, bbls.....lb. .45 - —
Hydriodic, 47%, bots.....lb. 2.30 - —
5-lb. bots.....lb. 2.51 - —
57%, bots.....lb. 2.75 - 2.90
Hydrobromic, 10% dilut., USP, lb. .20 - .21
pure, 34% conct., cbys.....lb. .42 - .44
Hydrochloric (see Muriatic).
Hydrocyanic, cyls., works....lb. .80 - 1.00
Hydrofluoric, 30%, bbls.....lb. .06 - .06¼
lead cbys.....lb. .08 - .08½
48%, lead cbys.....lb. .10½- .11
52%, lead cbys.....lb. .11½- .12
60%, lead cbys.....lb. .14 - .14½
Hydrofluosilic, 30-35%, 420 lb. bbls..lb. .09 - .09¼
Hypophosphorus, USP, 30%, djns..lb. .75 - .80
Lactic, tech., dark, 22%, bbls., c.l., works..100 lbs. 2.50 - —
l.c.l., bbls., works..100 lbs. 2.75 - —
cbys., works....100 lbs. 3.75 - —
44%, bbls., c.l., works, 100 lbs. 5.50 - —
l.c.l., bbls., works..100 lbs. 5.75 - —
cbys., works....100 lbs. 6.75 - —
light, 22%, bbls., c.l., works, 100 lbs. 3.50 - —
l.c.l., bbls., works..100 lbs. 3.75 - —
cbys., works....100 lbs. 4.75 - —
44%, bbls., c.l., works, 100 lbs. 6.50 - —
l.c.l., bbls., works..100 lbs. 6.75 - —
cbys., works....100 lbs. 7.75 - —
50%, edible, 20 and over, bbls., cbys..lb. .10½- .11½
plastic grade.....lb. .12¼- .13½
5 to 19, edible, bbls., cbys., lb. .11 - .12
plastic grade.....lb. .12¾- .13¾
1 to 4, edible, bbls., cbys., lb. .11½- .12½
plastic grade.....lb. .13¼- .14½
80%, 5 and over, bbls., cbys..lb. .21 - .22
1 to 4 bbls., cbys.....lb. .21½- .22½
USP, XI, 85%, cbys.....lb. .43 - .45
USP, VIII, 75%, cbys.....lb. .41 - .43
Lauric, dist., tech., dms....lb. .14 - .14½
Laurent's, bbls.....lb. .45 - —

Acid, linseed oil, dark, dms..lb. .13 - .13½
light, dms.....lb. .14 - .14½
extra white, dist., dms...lb. .14½- .15
Maleic, powd., dms.....lb. .30 - —
anhydride, dms., c.l.....lb. .25 - —
dms., l.c.l.....lb. .26 - —
Malic, powd., kegs.....lb. .47 - —
Mandelic, bots.....lb. 2.30 - —
dms., 1,000 lbs.....lb. 1.90 - —
smaller lots.....lb. 2.15 - —
Mixed, tanks, nitric unit....lb. .05 - .06
sulphuric unit.....lb. .0085-.009
Molybdic, kgs., works.....lb. .95 - 1.10
Monochloroacetic, tech., bbls... lb. .15 - .18
Monosulphonic, bbls.....lb. 1.50 - —
Muriatic, 18°, cbys., c.l., E. works..100 lbs. 1.50 - —
l.c.l., 25 and over, E. works..100 lbs. 1.75 - —
10 to 24, works...100 lbs. 1.85 - —
1 to 9, works....100 lbs. 2.45 - —
tanks, works.....100 lbs. 1.05 - —
20°, cbys., c.l., E. works, 100 lbs. 1.75 - —
l.c.l., 25 and over, works, 100 lbs. 2.00 - —
10 to 24, works...100 lbs. 2.10 - —
1 to 9, works....100 lbs. 2.70 - —
tanks, works.....100 lbs. 1.15 - —
22°, cbys., c.l., E. works, 100 lbs. 2.25 - —
l.c.l., 25 and over, works, 100 lbs. 2.50 - —
10 to 24, works...100 lbs. 2.60 - —
1 to 9, works....100 lbs. 3.20 - —
tanks, works.....100 lbs. 1.65 - —
cryst., gran., bbls., car lots.lb. .21 - —
6-lb. bots.....lb. .18½- —
consumers, cbys.....lb. .08 - —
6-lb. bots.....lb. .20 - —
Myristic, dist., dms.....lb. .18¼- .18¾
Naphthenic, dom., acidity, 160, dms., c.l., works..lb. .11 Nom.
l.c.l., dms., works.....lb. .11½ Nom.
tanks, works.....lb. .10½ Nom.
200-220, dms., c.l., works...lb. .09½ Nom.
l.c.l., dms., works.....lb. .10 Nom.
tanks, works.....lb. .09 Nom.
240, dms., c.l., works.....lb. .14 Nom.
l.c.l., dms., works.....lb. .14½ Nom.
tanks, works.....lb. No prices
Nicotinic, 25-lb. cns.....lb.15.00 -15.50
5-lb. bots.....lb.16.50 - —
1-lb. bots.....lb.17.00 - —
Nitric, 36°, cbys., c.l., E. works, 100 lbs. 5.00 - —
l.c.l., 25 and over, E. works..100 lbs. 5.25 - —
10 to 24, works...100 lbs. 5.35 - —
1 to 9, works....100 lbs. 5.95 - —
38°, cbys., c.l., E. works, 100 lbs. 5.50 - —
Western works...100 lbs. 5.75 - —
l.c.l., 25 and over, E. works..100 lbs. 5.75 - —
10 to 24, works...100 lbs. 5.85 - —
1 to 9, works....100 lbs. 6.45 - —
40°, cbys., c.l., E. works, 100 lbs. 6.00 - —
l.c.l., 25 and over, E. works..100 lbs. 6.25 - —
10 to 24, works...100 lbs. 6.35 - —
1 to 9, works....100 lbs. 6.95 - —
42°, cbys., c.l., E. works, 100 lbs. 6.50 - —
l.c.l., 25 and over, works, 100 lbs. 6.75 - —
10 to 24, works...100 lbs. 6.85 - —
1 to 9, works....100 lbs. 7.45 - —
C.P., USP, dealers, cbys...lb. .11½- —
7-lb. bots.....lb. .22½- —
consumers, cbys.....lb. .13 - —
7-lb. bots.....lb. .24 - —
Oleum (see sulphuric fuming).
Oxalic, dom., bbls., c.l., works, lb. .10¾- —
10,000 lbs. and over....lb. .11 - —
smaller quantities.....lb. .12 - .14
Palm oil, white, dist., dms..lb. .08 - .08½
tanks.....lb. .07½- —
Phenylacetic, bots.....lb. 1.75 - 3.00
Phosphoric, ortho, tech., 50%, cbys..lb. .06 - —
75%, cbys.....lb. .07¼- —
USP, 85%, s. g. 1,710, cbys., 180 lbs..lb. .12 - —
50%, s. g. 1,347, cbys., 70 lbs..lb. .12 - —
djns., 25 lbs.....lb. .15 - —
10%, dilut., cbys., djns...lb. .07 - .07½
Picramic, kgs.....lb. .65 - .70
Picric, bbls.....lb. .35 - —
Propionic ref., cbys., works..lb. .25 Nom.
dms., works.....lb. .22 Nom.
tech., cbys., works.....lb. .20 Nom.
dms., works.....lb. .16 Nom.
Pyrogallic, tech., lump, powd., bbls..lb. 1.05 Nom.
cns.....lb. 1.10 Nom.
USP, cryst., cns.....lb. 1.45 Nom.
resubl., cns.....lb. 2.05 Nom.
Pyroligneous, bbls., dlvd. E.gal. .25 - —
Ricinoleic, com'l, split (see Acid, castor oil, split), tech., dms., c.l., works....lb. .27 - —
l.c.l., dms., works.....lb. .28 - .33
Salicylic, tech., bbls.....lb. .33 - —
USP, bbls.....lb. .35 - .40
Sebacic, C.P., bbls., works..lb. No prices
tech., bbls., works.....lb. No prices
Soybean oil, dist., dms.....lb. .09¼- .09¾
Stearic, distl., double pressed, bgs., dlvd..lb. .12 - .13
single pressed, bgs., dlvd..lb. .11½- .12¼
triple pressed, bgs., dlvd..lb. .14¾- .15¾
saponif., double pressed, bgs., dlvd..lb. .12¾- .13¾
triple pressed, bgs., dlvd..lb. .15½- .16½
Succinic, bbls.....lb. .75 - —
Sulphanilic, CP, bots., works..lb. 1.60 - 1.68
tech., dms., works.....lb. .17 - —
Sulphonaphthenic, dms., c.l. ...lb. .04 - .10

Acacia—Alcohol

Acid, sulphuric, 60°, cbys., c.l., E. works..100 lbs. 1.25 - —
l.c.l., 25 and over, works, 100 lbs. 1.50 - —
10 to 24, works..100 lbs. 1.60 - —
1 to 9 works..100 lbs. 2.20 - —
tanks, E. works.....ton.13.00 - —
66°, cbys., c.l., E. Works..... 100 lbs. 1.50 - —
l.c.l., 25 and over, works, 100 lbs. 1.75 - —
10 to 24, works..100 lbs. 1.85 - —
1 to 9, works..100 lbs. 2.45 - —
tanks, E. works.....ton.16.50 - —
98°, tanks, works.....ton.17.50 - —
CP, USP, dealers, cbys....lb. .06½- —
9-lb. bots.....lb. .16½- —
consumers, cbys.....lb. .08 - —
9-lb. bots.....lb. .18 - —
fuming, 20%, tanks, E. works, ton.18.50 - —
65%, tanks, E. works....ton.36.00 - —
Fannic, tech., bbls., dms....lb. .40 Nom.
USP, fluffy, bbls., 1,000-lb. lots..lb. .88 Nom.
100-lb. lots.....lb. .90 Nom.
25-lb. lots.....lb. .93 Nom.
powd., bbls., 1,000 lbs.....lb. .78 Nom.
smaller lots.....lb. .80 Nom.
Tartaric, USP, dom., cryst., gran., powd., bbls., 10,000 lbs. or more, one shipment, lb. .35¼- —
smaller quantities.....lb. .35¾- —
kgs.....lb. .36¼- —
Tobias, bbls.....lb. .55 - .60
Trichloroacetic, bots.....lb. 2.00 - 2.50
Tungsten, CP, kgs., wks....lb. No prices
Chem. grade, kgs., wks....lb. No prices
Aconite leaves, bls.....lb. .28 - .30
Root, bls.....lb. .38 - .40
Aconitine, amorph., bots.....oz.23.00 - —
vls.....gr. 1.00 - —
cryst., bots.....oz.42.00 - —
vls.....gr. 1.60 - —
Adeps lanae, anhyd., dms.....lb. .30 - .31
hyd., dms.....lb. .29 - .30
Agar 1, bls.....lb. 1.50 Nom.
3, bls.....lb. No prices
Agaric, white, bls.....lb. No prices
Albumen, blood, dark, flake, bgs., f.o.b. Chicago, frt. alld..lb. .13 - —
powd., grade A, same basis, ton lots..lb. .15 - —
smaller lots, same basis..lb. .18 - —
light, dom., flake, dms., f.o.b. Chicago, frt. alld..lb. .55 - .62
import, bgs.....lb. .60 Nom.
egg, ed., dom., cryst., bbls..lb. .60 - .62
dom., powd., dms., bbls., lb. .65 - .67
import, cs.....lb. .62 - —
Alcohol, amyl (see also Fusel oil, refd.), ex pentane dms., c.l., frt.alld..lb. .111 - —
l.c.l., frt. alld.....lb. .121 - —
tanks, frt. alld.....lb. .101 - —
Benzyl, cns.....lb. .68 - —
drums.....lb. .63 - —
Butyl, normal, cns., works..lb. .14½- .16¼
dms., c.l., frt. alld.....lb. .10 - —
l.c.l., frt. alld.....lb. .10½- —
tanks, frt. alld.....lb. .09 - —
tankwagon, frt. alld....lb. .09¼- —
Contract prices 1c. per gal. less.
Secondary, dms., c.l., frt. paid E. of Miss. R..lb. .07½- —
l.c.l., same terms.....lb. .08 - —
tanks, same terms.....lb. .06½- —
tertiary, denaturing, c.l., dms., lb. .12½- —
l.c.l., dms.....lb. .13 - —
tanks.....lb. .11½- —
Capryl, pure, dms., works...lb. 2.50 - —
tech., dms., works.....lb. .85 - —
Cetyl, dom., CP, fiber ctns., 1,000 lbs..lb. 1.50 - —
500 lbs.....lb. 1.70 - —
100 lbs.....lb. 1.80 - —
25 lbs.....lb. 1.90 - —
5 lbs.....lb. 2.00 - —
com'l, dms.....lb. .95 - —
import, 85%, 100-lb. dms...lb. .55 - —
5 to 10 lbs.....lb. .75 - —
com'l, 850-lb. dms.....lb. .45 - —
Cinnamic, bots.....lb. 2.00 - 2.50
Denatured, CD14, dms., c.l., works, E..gal. .31½- —
l.c.l., works, dms.....gal. .36½- —
tanks, E., works.....gal. .25½- —

Prices for territories other than E. of Rockies are 4c. per gal., in tanks, and 5c. per gal. in dms., higher. Tankcar sales require written authorization by Alcohol Tax Unit.

SDI, 190 pf., bbls., c.l., E. works..gal. .29½- —
19 bbls., E. works...gal. .31½- —
1 to 18 bbls., E. works, gal. .34½- —
dms., c.l., E. works....gal. .28½- —
19 dms., E. works...gal. .30½- —
1 to 18 dms.....gal. .33½- —
tanks, E. works.....gal. .22½- —
Anhydrous 3c. per gal. higher.
SD-2B., dms., c.l., works, E. gal. .26½- —
19 dms., works, E...gal. .28½- —
1 to 18 dms., works, E. gal. .31½- —
tanks, E., works.....gal. .20½- —
SD23-G, works, E., c.l., dms., gal. .32½- —
19 dms.....gal. .34½- —
1 to 18 dms.....gal. .37½- —
tanks.....gal. .26½- —

Prices for territories other than E. of Rockies are 4c. per gal., in tanks, and 5c. per gal., in dms., higher.

Alcohol—Black, Bone

Alcohol, special solvent, dms., c.l., E. works..gal. .20½- —
20 dms., E. works..gal. .31½- —
1 to 10 dms.....gal. .34½- —
tanks, E. works.....gal. .23½- —
Tankcar sales require written authorization by Alcohol Tax Unit.

Diacetone, acetone-free, dms., c.l.,divd..lb. .12 - —
l.c.l., divd.....lb. .12½- —
cns., works.....lb. .16½- .18½
tanks, divd.....lb. .11 - —
tech., dms., c.l., divd.....lb. .11½- —
l.c.l., divd.....lb. .12 - —
cns., works.....lb. .16 - .18
tanks, divd.....lb. .10½- —
Ethyl, 190 pf., ex molasses, bbls., c.l..gal. 4.55 - —
19 bbls. .....gal. 4.58½ —
1 to 18 bbls.....gal. 4.61½ —
dms., c.l.....gal. 4.54 - —
19 dms. .....gal. 4.57½ —
1 to 18 dms.....gal. 4.60½ —
tanks .....gal. 4.48 - —
absolute, dms., c.l.....gal. 4.81½ —
19 dms. .....gal. 4.85 - —
1 to 18 dms.....gal. 4.88 - —
Grain alcohol 25c. gal. higher.
Furfuryl, tech., cns., works..lb. .35 - —
dms., c.l., 33,000 lbs., works, lb. .20 - —
l.c.l., 500 lbs. and more, works..lb. .25 - —
Isoamyl, primary, dms., l.c.l., divd..lb. .27 - —
cans, works.....lb. .32 - —
Isobutyl, refd., dms., works..lb. .0690- —
tanks, same terms.....lb. .0590- —
Isopropyl, refd., 91%, dms., 5 gal., f.o.b., dest..gal. .65 - —
55 gal., c.l., same basis.gal. .33½- —
l.c.l., same basis....gal. .38½- —
tanks, frt., alld.....gal. .28½- —
99%, dms., 5 gal., same basis, gal. .65 - —
55 gal., c.l., same basis, gal. .36 - —
l.c.l., same basis....gal. .41 - —
tanks, same basis.....gal. .31 - —
Methyl (see Methanol).
Phenylethyl, bots., cans.....lb. 2.50 - 3.35
Propyl, normal, dms., works, gal. .70 - —
Tetrahydrofurfuryl, dms., contract, f.o.b. Waverly, N. Y., lb. .44 - —
450 lb. lots, same basis....lb. .50 - —
cns., f.o.b., Cedar Rapids, Ia. lb. .55 - —
Aldehol, denat., grade, dms., tanks, works..gal. .70 - .72
Aldehyde bisulphite, bbls., divd., lb. .17 - —
smaller containers.....lb. .20 - —
Aldol, 95%, 55 and 110 gal. dms., c.l., works..lb. .11 - —
l.c.l., works.....lb. .12 - —
5 and 10 gal. dms., works, lb. .15 - —
Aletris root, bgs.....lb. .39 - .40
Alizarin (see Red, alizarin).
Alkanet root, bgs.....lb. .22 - .23
Aloe, Cape, cs.....lb. .22 - .24
Curacao, cs.....lb. .48 - .50
gourds, bbls.....lb. .80 - .85
Socotrine, kgs.....lb. .40 - .45
Aloin, 140-lb. bbls.....lb. 3.25 - —
100-lb. kgs.....lb. 3.27 - —
25-lb. fib. dms.....lb. 3.34 - —
Alphanaphthol, bbls.....lb. .32 - —
Alphanaphthylamine, bbls.....lb. .32 - —
Althea root, USP, cube cut, bbls., lb. .45 - .50
peeled, bls.....lb. .47 - .49
Alum, ammonia, burnt, USP, bbls., kgs..lb. .16 - .18
gran., bbls., works.....100 lbs. 3.50 - —
dlvd. N. Y., Phila..100 lbs. 3.50 - —
lump, bbls., works.....100 lbs. 3.75 - —
dlvd. N. Y., Phila..100 lbs. 3.75 - —
powd., bbls., works....100 lbs. 3.90 - —
dlvd. N. Y., Phila..100 lbs. 3.90 - —
Ammonia alum prices are for contract and open market; f.o.b. Phila.; frt. equalised with Marcus Hook, Boston, Atlanta, or Joliet; rail or water rates, whichever is lower. L.c.l. quantities must carry l.c.l. rate applying; for truck or ex warehouse deliveries all metrop. zones (except N. Y.) add l.c.l. rail or water rate, whichever is lower, from shipping or equalization point; divd. N. Y. prices apply to truck or ex warehouse.

Potash, gran., bbls., works, 100 lbs. 3.75 - —
dlvd. N. Y., Phila..100 lbs. 3.75 - —
lump, bbls., works.....100 lbs. 4.00 - —
dlvd. N. Y., Phila..100 lbs. 4.00 - —
powd., bbls., works....100 lbs. 4.15 - —
dlvd. N. Y., Phila..100 lbs. 4.15 - —
Potash alum prices on same basis as those for ammonia alum.
Potash-chrome, bbls.....lb. .06¼ Nom.
Soda, bbls., c.l., works..100 lbs. 3.25 - —
l.c.l., dlvd.....100 lbs. 4.25 - 5.00
Alumina acetate, 20%, normal solut., bbls., c.l., dlvd..lb. .07½- —
l.c.l., dlvd.....lb. .09 - —
52%, basic solut., bbls., c.l., dlvd..lb. .10 - —
l.c.l., dlvd.....lb. .12 - —
basic powd., bbls., dlvd...lb. .40 - —
smaller containers, dlvd., lb. .50 - —
Chloride, anhyd., com'l, dms., (extra), 45,000 lbs. and over, works..lb. .08 - —
12,000 to 40,000 lbs., works..lb. .09 - —
1,100 to 11,000 lbs., works, lb. .10 - —
140 to 875 lbs., works.lb. .11 - —
100 lbs. or less, works.lb. .12 - —
cryst., com'l, dms., c.l., works, lb. .06 - —
l.c.l., dms., works.....lb. .06½- —
solution, 32 deg., cbys., c.l., works..lb. .02¾- —
l.c.l., cbys., works.....lb. .03¼- —
Formate, 80%, solut., bbls., c.l., dlvd..lb. .13 - —
l.c.l., dlvd.....lb. .15 - —
Hydrate, heavy, bbls., c.l., works..lb. .0290- —
l.c.l., bbls., works.....lb. .0310- —
bgs., c.l., works.....lb. .0260- —
light, bgs., c.l., dlvd.....lb. .12 - —
l.c.l., bgs., dlvd.....lb. .12½- —
bbls., c.l., dlvd.....lb. .12½- —
l.c.l., bbls., dlvd.....lb. .13 - —
Oleate, dms., contract.....lb. .17½- —
open order .....lb. .17½- .20
Palmitate, precip., bbls.....lb. .20½- .21½
Resinate, precip., dms., dlvd.lb. .15 - —
Stearate, precip., bbls., ctns., c.l..lb. .19 - —
l.c.l., ton.....lb. .19½- —
less than ton.....lb. .20 - —
Sulphate, com'l, bgs., c.l., works, frt. equald..100 lbs. 1.15 - —
l.c.l., works, frt. equald.. 100 lbs. 1.40 - —
bbls., c.l., works, frt. equald. 100 lbs. 1.35 - —
Alumina, sulphate, coml., bbls., l.c.l., works, frt. equaled 100 lbs. 1.60 - —
iron-free, bgs., c.l., works, 100 lbs. 1.45 - —
l.c.l., works.....100 lbs. 1.70 - —
bbls., c.l., works...100 lbs. 1.65 - —
l.c.l., works.....100 lbs. 1.90 - —
Aluminum 98-99%, c.l.....lb. .20 - —
l.c.l. .....lb. .21 - —
paste, lining, extra fine, dms., 1,500 lbs..lb. .63 - —
ink, dms., 1,500 lbs.....lb. .73 - —
standard, dms., 1,500 lbs..lb. .40 - —
powder, lining, extra fine, dms., 1,500 lbs..lb. .92 - —
standard, dms., 1,500 lbs.lb. .57 - —
litho, extra brilliant, dms., 1,500 lbs..lb. .43 - —
extra fine, dms., 1,500 lbs.lb. .47 - —
lining, dms., 1,500 lbs....lb. .57 - —
standard, dms., 1,500 lbs..lb. .42 - —
rubber compound, dms., 1,500 lbs..lb. .40 - —
unpolished, dms., 1,500 lbs. lb. .37 - —
varnish, extra brilliant, dms., 1,500 lbs..lb. .43 - —
extra fine, dms., 1,500 lbs.lb. .47 - —
standard, dms., 1,500 lbs.lb. .40 - —
Aluminum paste and powder prices are 5c. per lb. higher for less than 200 lbs.; 2c. per lb. higher for 200-400 lbs.; and 1c. per lb. higher for 400-1,500 lbs.; for containers smaller than drums, prices are 1c. per lb. higher for 100 lbs.; 1½c. per lb. higher for 50 lbs.; 3c. per lb. higher for 10 lbs.; 5c. per lb. higher for 2 lbs.; 8c. per lb. higher for 1 lb.; and 12c. per lb. for ½ lb.; on single shipments of 5,000 lbs. prices are 1c. per lb. lower; for 30,000 lbs. prices are 2c. per lb. lower. Transportation allowed East of Mississippi.

Ambergris, gray, tins.....oz.17.00 -26.00
Aminopyrine, 100-lb. dms.....lb. 4.00 - —
5-lb. bots.....lb. 4.22 - 4.25
Ammonia, acetate, bbls., kgs., dvd..lb. .27 - .33
dms., dlvd.....lb. .23 - .26
Aldehyde, dms.....lb. .65 - .70
Anhydrous, fertilizer, com'l, tanks (50,000 lbs.), works..lb. .04½- —
refrigeration, tanks, works, lb. .05 - —
pure, cycls., dlvd., met. N.Y.lb. .16 - —
Anhydrous ammonia in cylinders is quoted on a nationwide schedule of delivered and stock point prices in all States.
Aqua, 20°, cbys.....lb. .05¼- —
dms., c.l. .....lb. .02¾- —
l.c.l. .....lb. .02½- —
tanks (on NH_3 content), f.o.b. works.....lb. .04 - —
Benzoate, dms., 4,000 lbs. or more..lb. .40 - .42
1,000 lbs. to 3,900 lbs....lb. .41 - .43
900 lbs. or less.....lb. .42 - .46
kgs., 4,000 lbs. or more....lb. .40 - —
1,000 lbs. to 3,900 lbs....lb. .41 - —
900 lbs. or less.....lb. .42 - —
Bicarbonate, bbls., dlvd., Met. N. Y..lb. .0556- —
kgs., same basis.....lb. .0606- —
Bichromate, bbls.....lb. .30 - .32
Bifluoride, bbls.....lb. .14½- .16¼
Borate, bbls., kgs.....lb. .15 - .16
Bromide, gran., bbls.....lb. .35 - —
bxs. .....lb. .38 - .39
kegs .....lb. .36 - —
Carbonate, lump, bbls., dlvd., Met. N. Y..lb. .08 - —
kgs., same basis.....lb. .11 - —
cns., same basis.....lb. .13½- —
Powdered, 1c. per lb. higher.
Chloride, tech. (see Ammoniac, sal).
USP, gran., 225-lb. bbls....lb. .12 - .13
100-lb. kgs.....lb. .15 - —
Citrate, dms.....lb. .80 - —
cns. .....lb. .85 - —
Fluoride, bbls.....lb. .17 - .19
Hydroxide (see Ammonia, aqua).
Hypophosphite, dms.....lb. 1.25 - 1.27
jars .....lb. 1.35 - —
Iodide, 5-lb. bots.....lb. 3.71 - —
jars .....lb. 3.65 - —
Linoleate, 80%, anhyd., bbls., lb. .12 - —
Molybdate, kgs., wks.....lb. 1.05 - 1.20
Nitrate, tech., bgs., works, 100 lbs. 4.35 - —
bbls., works.....100 lbs. 4.55 - —
Oleate, dms.....lb. .14 - —
Oxalate, neutral, powd., bbls., kgs..lb. .19 - .20
pure gran.....lb. .32 - —
Perchlorate, kgs.....lb. .17 - .19
Persulphate, kgs., dom.....lb. .21 - .22
imported, kgs.....lb. .18 - —
Phosphate, dibasic, N.F.V., bls., lb. .37 - —
kgs. .....lb. .39 - —
tech., bbls., c.l.....lb. .07½- —
l.c.l. .....lb. .09 - .10
monobasic, crude (fert. grade), 11% N 48% phos., bulk, f.o.b. E. works., unit-ton. 1.50 & .75
pure, bbls. .....lb. .40 - .45
tech., bbls., c.l.....lb. .07½- —
l.c.l. .....lb. .09 - .10
Salicylate, U.S.P., kgs.....lb. 1.15 - 1.20
Silicofluoride, imp., bbls., ex-dock N.Y..lb. .12½ Nom.
Stearate, anhydrous.....lb. .24½- —
paste .....lb. .06½- —
Sulphate, dom., bulk, c.l., f.o.b. shipt..ton.28.00 - —
Ammonia sulphate prices are f.o.b. cars nearest Atlantic or Gulf port, and/or $1 per ton less than above prices f.o.b. cars nearest inland producing oven, whichever is lower to destination.
Sulphide, liquid, 40-45%, basis, 100%, dms., c.l., dlvd..lb. .08 - —
l.c.l., works.....lb. .12 - .13
tanks, dlvd.....lb. .07½- —
red, 48%, cbys., works.....lb. .07½- —
dms., works.....lb. .05½- —
yellow, 33%, cbys., works..lb. .07½- —
dms., works.....lb. .05½- —
Sulphocyanide, pure, 99-100%, kgs..lb. .65 - —
Ammoniac, gum (see Gum, ammoniac).
sal, gray, dom., bbls., c.l., 100 lbs. 5.50 - 5.75
l.c.l. .....100 lbs. 6.00 - 6.70
white, gran., dom., bbls., c.l., works..100 lbs. 4.45 - —
l.c.l., same basis...100 lbs. 5.00 - 5.15
import, csks. .....100 lbs. No prices
Amyl acetate, ex fusel oil, tech., dms., c.l., dlvd..lb. .12½- —
l.c.l., dlvd.....lb. .13 - —
tanks, dlvd.....lb. .11½- —
cns., works.....lb. .17 - .19
ex pentane, dms., c.l., frt. alld..lb. .10½- —
l.c.l., frt. alld.....lb. .11½- —
tanks, frt. alld.....lb. .09½- —
Alcohol (see Alcohol amyl).
Butyrate, dms., 50 gal., returnable..lb. .75 - —
Caproate, cns.....lb. 2.75 - —
Chloride, normal, dms., works, lb. .56 - —
small lots, works.....lb. .68 - —
Amyl, chloride, mixed, tech., dms., c.l., works..lb. .0565- —
l.c.l., works.....lb. .0665- —
tanks, works.....lb. .0465- —
Nitrite, bots.....lb. 1.80 - 1.85
Mercaptan, dms., l.c.l., works, lb. 1.10 - —
Oleate, dms., l.c.l., works..lb. .25 - —
Salicylate, 5 lbs., bots., 25 dms., l.c.l., works..lb. .26 - —
cns., 25 lbs.....lb. .31 - —
Stearate, dms., l.c.l., works.lb. .26 - —
Amylene, dms., c.l., works....lb. 1.02 - —
l.c.l., works.....lb. .11 - —
tanks, works.....lb. .09 - —
Anaethol, bots. .....lb. 1.05 - 1.15
Angelica root, dom., bls.....lb. .23 - .24
import, natural, bls.....lb. .60 - .70
twisted bls.....lb. .95 - 1.25
Angostura bark, bls.....lb. .28 - .32
Anilin oil, dms.....lb. .15 - —
l.c.l. .....lb. .16 - —
tanks .....lb. .14½- —
Salt, dms., works.....lb. .22 - .24
Anise, Mexican, bgs.....lb. .14 - .14½
Spanish, bgs.....lb. .28 - .29
Star, bgs.....lb. .16 - .16½
Anisic aldehyde, bots.....lb. 2.65 - 2.75
Annatto paste, bxs.....lb. .34 - .39
seed, bgs.....lb. .06½- .07
Anthracene, 80-85%, bbls., wks., lb. .55 - —
90%, bbls., wks.....lb. .65 - —
Anthraquinone, 99.5%, subl., bbls., lb. .65 - —
Antimony butter (see Antimony chloride).
Chloride, solut., cbys.....lb. .17 - —
Metal, spot.....lb. .14 Nom.
Needle, powd., kgs.....lb. .18 Nom.
Oxide, bgs., c.l.....lb. No price
l.c.l. .....lb. No price
Salt, 65%, kgs.....lb. .42 Nom.
White pigment, bgs., f.o.b. Laredo, Tex..lb. .15½ Nom.
Antipyrene, bbls., kgs., ton lots, lb. 2.00 - —
smaller lots.....lb. 2.10 - 2.15
Apomorphine, bots.....oz.23.20 -23.70
Archil extract, con., bbls.....lb. No prices
double, bbls.....lb. No prices
triple, bbls.....lb. No prices
Areca, nuts, powd., bbls.....lb. .13 - .16
Arecoline hydrobromide, bots..oz. 6.00 - 6.10
Argols, test 70% to 85%, basis 100%, 100 kgm., purity, 100 kilos. No prices
Arnica flowers, bls.....lb. .40 - .42
Root, bls.....lb. .49 - .51
Arrowroot, St. Vincent, powd. bgs..lb. .09 - .09½
bbls. .....lb. .09½- .10
Arsenic, metal, lump, cs.....lb. No prices
Chloride (arsenous), cns.....lb. 4.85 - —
Iodide (arsenous), 5-lb. bots.lb. 5.58 - —
jars .....lb. 5.43 - —
Red, import, cs.....lb. .17½- .18
Trioxide (see Acid, arsenous).
White, powd., kgs., c.l.....lb. .03 - —
l.c.l. .....lb. .03¾- —
Asafetida, cs.....lb. .45 - .50
powd., bbls., bxs.....lb. .70 - .75
Asbestine (see Talc, N. Y. fibrous).
Asbestos fiber, 5M, bgs., c.l. (20 tons), Canad. mines..ton.42.50 - —
5R, bgs., c.l. (20 tons), Canad. mines..ton.40.00 - —
6D, bgs., c.l. (30 tons), Canad. mines..ton.30.00 - —
7D, bgs., c.l. (30 tons), Canad. mines..ton.25.00 - —
7F, bgs., c.l. (30 tons), Canad. mines..ton.23.00 - —
7H, bgs., c.l. (30 tons), Canad. mines..ton.19.00 - —
7K, bgs., c.l. (30 tons), Canad. mines..ton.16.50 - —
7M, bgs., c.l. (30 tons), Canad. mines..ton.14.00 - —
Asphaltum, Manjab No. 10, crude, tons, f.o.b. plant.....lb. .04½- —
smaller lots, f.o.b. plant, lb. .05½- —
process form, bgs., 20 tons, f.o.b. plant.....lb. .05 - —
smaller lots, f.o.b. plant..lb. .06 - —
California, dms., c.l., f.o.b. N. Y..ton.29.00 - —
l.c.l., f.o.b. N. Y.....ton.36.50 - —
Cuban A, bgs., c.l., f.o.b. N. Y. ton.60.00 - —
l.c.l., f.o.b. N. Y.....ton.90.00 - —
B, bgs., c.l., f.o.b. N. Y..ton.35.00 - —
l.c.l., f.o.b. N. Y.....ton.55.00 - —
Egyptian, bgs., c.l., f.o.b. N. Y..lb. .12 - —
l.c.l., f.o.b. N. Y.....lb. .15 - —
Gilsonite, brilliant black, bgs., c.l., Western shipt. points.. ton.32.00 - —
seconds, bgs., c.l., Western shipt. points..ton.25.50 - —
selects, bgs., c.l., Western shipt. points..ton.30.50 - —
l.c.l., f.o.b., N. J. or N. Y., whse..ton.51.00 - —
Jet., bgs., c.l., Western shipping points..ton.30.50 - —
Manjak (see Asphaltum, Barbados).
Mexican, Texas, dms., c.l., refinery..ton.19.00 - —
l.c.l., refinery.....ton.21.00 - —
tanks, refinery.....ton.16.00 - —
Petroleum, cut-back, bbls., l.c.l., E. cst., refinery..gal. .18 - —
dms., c.l., E. cst., refinery, gal. .12 - —
tanks, Calif., refinery...ton.12.50 -14.00
East Coast, refinery....gal. .06 - .06½
Ill., Ind., refinery.....gal. .06½- —
N. Orleans refinery....gal. .06 - —
Atropine, bots. .....oz. 7.00 - —
Sulphate, bots.....oz. 4.00 - 4.25

B

Balm of Gilead buds, bgs.....lb. .45 - .50
Barberry bark, bgs.....lb. .37 - .39
Tree bark, bls.....lb. No prices
Barbital, cs.....lb. 3.25 - 3.35
Barium carbonate, natural, 90-96%, grd., bgs., c.l., works, ton.45.00 -47.00
99% thru 200 mesh, bgs., c.l.,works..ton.47.00 -49.00
precip., bgs., c.l., works..ton.52.50 - —
Chicago .....ton.55.00 - —
l.c.l., works.....ton.57.50 - —
Chicago .....ton.60.00 - —
bbls., c.l., works.ton.57.50 - —
Chicago .....ton.60.00 - —
l.c.l., works.....ton.62.50 - —
Chicago .....ton.65.00 - —
sulphur-free, bgs., c.l., works, ton.57.50 - —
l.c.l., works.....ton.62.50 - —
Barium, chloride, tech., dom., cryst., bgs., c.l., Zone 1, divd., New England States, N. Y., N. J., Pa., Md., Va., Ohio, Mich., Ind., Wisc., Ill., Ky. and principal cities on west bank of Miss., north of Ark. line....ton.77.00 - —
bbls., same basis..ton.79.00 - —
l.c.l., bgs., same basis, ton.90.00 - —
bbls., same basis...ton.92.00 - —
Zone 2, bgs., c.l., divd., Tenn., N.-S. Carolina, Ga., Ala., Miss., Fla., ton.81.00 - —
bbls., same basis...ton.83.00 - —
l.c.l., bgs., same basis, ton.94.00 - —
bbls., same basis...ton.96.00 - —
Zone 3, bgs., c.l., Minn., Ia., Mo., Col., N. Mex., Idaho, Utah, Ariz. ton.87.00 - —
bbls., same basis..ton.89.00 - —
l.c.l., bgs., same basis, ton.100.00 - —
bbls., same basis..ton.102.00 - —
Zone 4, bgs., c.l., divd., Wash., Ore., Calif., Nev..ton.83.00 - —
bbls., same basis..ton.85.00 - —
l.c.l., bgs., same basis.ton.96.00 - —
bbls., same basis..ton.98.00 - —
Dioxide, dms.....lb. .11 - .15
Fluoride, bbls.....lb. .14 - .15
Fluosilicate, bbls.....lb. .16 - —
Hydrate (see Hydroxide).
Hydroxide, bbls., imp.....lb. .06½ Nom.
dom., works.....lb. .06½- .07
Iodide, bots.....lb. 4.77 - —
jars .....lb. 4.62 - —
Monoxide (see Oxide).
Nitrate, cks.....lb. .10½ Nom.
Oxide, dms.....lb. .09 - .11
Peroxide (see Dioxide).
Sulphate, tech. (see Barytes and blanc fixe).
X-ray, bbls.....lb. .09½- .10
kgs. .....lb. .12 - —
Barytes, dom., floated, bbls., c.l., St. Louis..ton.23.65 - —
l.c.l., same basis.....ton.26.15 - —
paper bags, c.l., St. Louis..ton.22.85 - —
l.c.l., same basis.....ton.23.85 - —
ex whse., New York.....ton.31.50 - —
southern off color, bulk, mines, ton.12.00 - —
95.75%, bulk, mines....ton.16.00 - —
ore, bulk, mines.....ton. 7.00 - —
Cuban, crude, c.l., c.i.f.....ton.11.00 - —
German, grd., bbls., c.l., dock, t.a..ton. No prices.
l.c.l., ex whse.....ton. No prices.
ungrd., bulk, c.l., ex dock.ton. No prices.
Italian, grd., bbls., c.l., ex dock, t.a..ton.29.50 Nom.
l.c.l., ex whse. .....ton.32.50 Nom.
Bauxite, bulk, mines.....ton. 7.00 -10.00
Bay leaves (see Laurel leaves).
Bay rum, import, bbls.....lb. .82 - .90
Bayberry bark, bgs.....lb. .14 - .15
Belladonna leaves, bls.....lb. .24 - .30
Root, bls.....lb. .32 - .45
Bentonite, 200 mesh, bgs., Wyo., works..ton.11.00 - —
325 mesh, bgs., Wyo., works, ton.16.00 - —
Benzaldehyde, tech., cbys, dms., lb. .55 - .60
USP, X, dms., 50 to 100 lbs..lb. .85 - —
5 to 25 lbs.....lb. .90 - .95
Benzene (see benzol).
Benzidin base, bbls.....lb. .70 - —
Benzol, 90%, dms., returnable, works..gal. .21 - —
tankcars, frt. alld. E. of Omaha, gal. .16 - —
W. Coast, f.o.b. Minnequa, Colo..gal. .16 - —
export .....gal. .17 - —
Benzoyl chloride, cbys.....lb. .23 - .28
Peroxide, pure, gran., fib. ctns., works..lb. 1.95 - —
Benzyl acetate, f.f.c., cns.....lb. .49 - —
dms. .....lb. .44 - —
Alcohol (see Alcohol, benzyl).
Benzoate, a.m.a., f.f.c., cans, lb. .84 - —
dms. .....lb. .80 - —
Chloride, 95.97%, refd., dms., lb. .19 - .21
Cinnamate, cns.....lb. 4.15 - 5.50
Formate, cns.....lb. 2.75 - 3.50
Benzylidineacetone, bots.....lb. 2.00 - 2.50
Berberine bisulphate, cns.....lb.17.25 -17.50
Hydrochloride, cns.....lb.17.25 -17.50
Sulphate, cns.....lb.17.25 -17.50
Berberis root, bls.....lb. .11 - .13
Betanaphthol, sublim., kgs....lb. .60 - —
tech., bbls., c.l., works....lb. .23 - —
l.c.l., bbls., works.....lb. .24 - —
Benzoate, fib., dms.....lb. 2.10 - —
kgs .....lb. 2.00 - —
Betanaphthylamine, tech., kgs.lb. .51 - —
Beth root, bls.....lb. .19 - .21
Bismuth chloride, 5-lb. bots...lb. 3.20 - 3.25
Citrate, USP, VIII, 5-lb. bots., lb. 2.76 - —
jars .....lb. 2.65 - —
Hydroxide, 5-lb. bots.....lb. 3.46 - —
cns. .....lb. 3.35 - —
Metal, ton lots.....lb. 1.25 - —
Nitrate, cryst., 5-lb. bots...lb. 1.45 - —
cans. .....lb. 1.30 - —
Oxychloride, 5-lb. bots.....lb. 3.19 - —
cns., kgs.....lb. 3.10 - —
Subbenzoate, 5-lb. bots.....lb. 3.36 - —
fib. dms.....lb. 3.13 - —
Subcarbonate, bots., cns.....lb. 1.82 - 2.08
fib. dms.....lb. 1.73 - 1.76
X-ray, 5-lb. bots.....lb. 3.02 - —
fib. dms.....lb. 2.96 - —
Subgallate, bots., cns.....lb. 1.77 - 2.03
fib. dms.....lb. 1.68 - 1.71
Subiodide, cns.....lb. 4.01 - —
fib. dms.....lb. 3.98 - —
Subnitrate, powd., bots., cns.lb. 1.57 - 1.83
fib. dms.....lb. 1.48 - 1.51
Subsalicylate, 61-66%, bxs...lb. 2.59 - —
bbls., fib. dms.....lb. 2.50 - —
Sulphocarbolate, 5-lb. bots...lb. 3.61 - —
fib. dms .....lb. 3.50 - —
Trioxide, powd., 5-lb. bots...lb. 3.56 - —
cns. .....lb. 3.45 - —
Bismuth-ammonia, citrate, USP, powd., 5-lb. lots..lb. 3.40 - —
cns. .....lb. 3.20 - —
Bismuth-betanaphthol, 5-lb. bots., lb. 3.14 - —
fib. dms.....lb. 3.05 - —
Black, acetylene, c.l., works, duty paid..lb. .14 - —
Bone, 1A, bbls., bgs., c.l., frt., alld. E..lb. .17 - —
l.c.l., frt. alld. E.....lb. .17½- —
1, bbls., bgs., c.l., frt. alld. E..lb. .13 - —
l.c.l., frt. alld., E.....lb. .13½- —
2, bbls., bgs., c.l., frt. alld. E. lb. .11½- —
l.c.l., frt. alld. E.....lb. .12 - —

Black, bone, 3, bbls., bgs., c.l., frt. alld. E..lb. .10½- —
l.c.l., frt. alld. E.....lb. .11 - —
4, bbls., c.l., frt. alld. E..lb. .09½ -
l.c.l., frt. alld. E.....lb. .10 - —
5, bbls., bgs., c.l., frt. alld. E..lb. .08½- —
l.c.l., frt. alld. E.....lb. .09 - —
6 bbls., c.l., frt. alld. E..lb. .06½- —
l.c.l., frt. alld. E.....lb. .07 - —
7 bbls., bgs., c.l., frt. alld. E..lb. .10 - —
l.c.l., frt. alld. E.....lb. .10½- —
8, bbls., bgs., c.l., frt. alld. E. lb. .11 - —
l.c.l., frt. alld. E.....lb. .11½- —
Bone black prices on Pacific Coast are 1c. per lb. higher, ex dock or ex whse.
Carbon, regular, uncompressed, bgs., c.l., f.o.b. plants. lb. .0235- —
f.o.b. North Atlantic ports, lb. .03425- —
beads, compressed, bgs., c.l., f.o.b. plants..lb. .02425- —
f.o.b. North Atlantic ports, lb. .0330- —
l.c.l., beads or uncompressed, bgs., f.o.b. whse..lb. .05¾- —
dlvd..lb. .06½- —
cartons, f.o.b. whse. or dlvd..lb. .06½- —
cases, f.o.b. whse. or dlvd. lb. .07 - —
bulk, cars, c.l., f.o.b. plants. lb. .0230- —
f.o.b. New York harbor..lb. .0318- —
Special, 2, bgs., c.l., works, lb. .06½- —
l.c.l., dlvd.....lb. .10½- —
bgs., l.c.l., dlvd.....lb. .12 - —
3, bgs., c.l., works.....lb. .13 - —
l.c.l., dlvd.....lb. .14½- —
cs., l.c.l., dlvd.....lb. .16½- —
4, bgs., c.l., works.....lb. .29 - —
cs., c.l., works.....lb. .29 - —
l.c.l., dlvd.....lb. .32 - —
5, bgs., cs., c.l., works...lb. .40 - —
cs., c.l., dlvd.....lb. .44 - —
6, cs., l.c.l., dlvd.....lb. .60 - —
7 cs., l.c.l., dlvd.....lb. 1.10 - —
export, full compressed, bgs., f.a.s., Gulf ports..lb. .0521- —
uncompressed, cs., f.a.s., Gulf ports..lb. .0621- —
Charcoal (see C).
Graphite (see G).
Iron oxide, magnetic, 1, pure, bbls., l.c.l., works..lb. .08¾- —
2, bbls., l.c.l., works.....lb. .08 - —
Ivory, genuine, bbls.....lb. .30 - —
Lamp, dom., 1, ctns., c.l., works..lb. .07 - —
l.c.l., works.....lb. .08 - —
2, ctns., c.l., works.....lb. .09 - —
l.c.l., works.....lb. .10 - —
2A, ctns., c.l., works.....lb. .11 - —
l.c.l., works.....lb. .12 - —
1, ctns., c.l., 3, ctns., c.l. works..lb. .13 - —
l.c.l., works.....lb. .14 - —
4, ctns., c.l., works.....lb. .14 - —
l.c.l., works.....lb. .15 - —
5, ctns., c.l., works.....lb. .17 - —
l.c.l., works.....lb. .18 - —
6, ctns., c.l., works.....lb. .24 - —
l.c.l., works.....lb. .25 - —
7, ctns., c.l., works.....lb. .34 - —
l.c.l., works.....lb. .35 - —
import, 1, bbls., c.l., f.o.b. N. Y..lb. .08 - —
l.c.l., f.o.b. N. Y.....lb. .09 - —
2, bbls., c.l., f.o.b. N. Y..lb. .11 - —
l.c.l., f.o.b. N. Y.....lb. .12 - —
3, bbls., c.l., f.o.b. N. Y..lb. .13 - —
l.c.l., f.o.b. N. Y.....lb. .14 - —
4, bbls., c.l., f.o.b. N. Y..lb. .14 - —
5, bbls., c.l., f.o.b. N. Y..lb. .19 - —
lc.l., f.o.b. N. Y.....lb. .20 - —
6, bbls, c.l., f.o.b. N. Y..lb. .24 - —
l.c.l., f.o.b. N. Y.....lb. .25 - —
vine, A, bbls, works or N. Y., lb. .04¼- —
B, bbls., works or N. Y..lb. .05½- —
works..lb. .13½- .15½
dms., c.l., frt. alld.....lb. .09 - —
l.c.l., frt. alld.....lb. .09½- —
Black dyes are listed under Dyes.
Black Haw, root bark, bls....lb. .24 - .26
Tree bark, bls.....lb. .13 - .14
Black Indian hemp root, bls...lb. .22 - .24
Blanc fixe, dry, by-product, bgs., c.l., works..ton.50.00 -55.00
l.c.l., works.....ton.54.00 -60.00
direct process, bgs., c.l., works, frt. equal.ton.70.00 - —
l.c.l., same basis....ton.75.00 -90.00
pulp, 66⅔%, bbls., c.l., works. ton.35.00 - —
l.c.l., works.....ton.42.50 - —
Bleaching powder, dms., c.l., works..100 lbs. 2.00 - 2.35
l.c.l., works.....100 lbs. 2.25 - 2.35
Blood, dried, dom., 16-16½ ammon., bgs., f.o.b. N. Y., unit-ton. 3.40 - —
high-grade, grd., 16-17 ammon., bulk, f.o.b. Chi., unit-ton. 3.65 - —
import, bgs., c.i.f. ports, shipt., unit-ton. 3.40 - —
soluble (see Albumen, blood)
Bloodroot, bls. .....lb. .11 - .12
Blue, alkali, toner, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. river, including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis, lb. .90 - —
Alkali blue toner prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Tex. (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; ½c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.
Bronze, bbls., same basis, alkali toner contracts..lb. .36 - —
open order.....lb. .37 - —
Celestial, bbls.....lb. .10 - .12
Chinese, bbls., same basis, alkali toner, contracts..lb. .36 - —
open order.....lb. .37 - —
Cobalt, genuine, 1-kilo pkg., lb. 4.90 - —
Imitation (see Blue, ultramarine).
Copper, phthalocyanin, bbls., f.o.b. works, frt. alld..lb. 3.30 - 3.75
Milori, bbls., same basis alkali toner, contracts..lb. .33 - —
open order.....lb. .34 - —
Potash, dom., bbls., same basis alkali toner, contracts..lb. .42 - —
open order.....lb. .42 - —
Prussian, bbls., same basis alkali toner, contracts..lb. .33 - —
open order.....lb. .34 - —
soluble, bbls., same basis alkali toner, contracts. lb. .36 - —
open order.....lb. .37 - —
Tungstated, peacock, kgs....lb. 3.75 - —
Victoria, kgs.....lb. 3.25 - —

Blue, ultramarine, dry or pulp, cobalt grades, bbls., works, frt. equal..lb. .22 - .27
jobbing grades, bbls., same basis..lb. 11 - —
regular grades, bbls., same basis..lb. .16 - .27
Blue, ultramarine, blue, dlvd., ex whse., is 1c. higher; Pac. Coast ex whse., 2c., higher; 100-lb. kgs., 1c. above bbls.; 28-lb. boxes 5c. above bbls.
Victoria, ink toner, bbls., same basis alkali toner..lb. 1.85 - —
Blue dyes are listed under Dyes.
Bluefag root, bls. .....lb. .13 - .14
Blue mass, USP, cns.....lb. 1.47 - —
powd., cns.....lb. 1.49 - —
Bluestone (see Copper sulphate)
Blue vitriol (see copper sulphate)
Bone, raw, dom., 4½% ammon., 50% phos., bgs., f.o.b. Chicago..ton.32.00 -33.00
import, bgs., c.i.f. ports.ton.30.00 - —
Meal, steamed, dom., 3% ammon., 50% phos., bgs., f.o.b. Chicago..ton.32.00 - —
import, 100-lbs., bgs., c.i.f., ports, shipt..ton.32.00 - —
Phosphate, precip. (see Calcium phosphate dibasic, precip.)
Steamed, dom., 1¼% ammon., 60% phos. bgs., f.o.b., Chicago..ton.29.00 -30.00
import, 1% ammon., 65-70% phos., bgs., c.i.f. ports.ton.34.50 - —
Boneset leaves, bales.....lb. .08 - .09
Borage flowers, bales.....lb. .20 - .25
Borax, tech., 99½%, cryst., bbls., contracts, 80 tons min., dlvd..ton.58.00 - —
l.c.l., ex whse.....ton.67.00 -72.00
sks., contracts, 80 tons min., dlvd..ton.48.00 - —
l.c.l., ex whse.....ton.57.00 -62.00
gran., bbls., contracts, 80 tons min., dlvd..ton.58.00 - —
l.c.l., ex whse.....ton.64.00 -69.00
sks., contracts, 80 tons min., dlvd..ton.48.00 - —
l.c.l., ex whse.....ton.54.00 -59.00
powd., bbls., contracts, 80 tons min., dlvd..ton.58.00 - —
l.c.l., ex whse.....ton.69.00 -74.00
sks., contracts, 80 tons min. dlvd..ton.48.00 - —
l.c.l., ex whse.....ton.59.00 -64.00
USP, $15 per ton higher.
Bordeaux mixture, dms., c.l., dealers..lb. .11 - —
l.c.l., dealers, dms..lb. .11½- —
Bordeaux mixture prices are works or whse. basis, frt. alld. to dest. in lots 96 lbs. and over; no trucking or freight allowances for works or warehouse pick-ups.
Borneol, bots. .....lb. 1.75 - 2.00
Brasilwood extract (see Hypernic).
Brimstone (see Sulphur).
Bromine, purif., cs., 1,000 lbs., frt. alld. E. of Rockies..lb. .30 - —
single pkg., same basis.lb. .35 - —
Bromoform, USP, bots.....lb. 1.40 - 1.60
Bromstyrol, bots.....lb. 3.50 - 3.75
Bronze powder, aluminum (see A).
Gold, litho, cns., dms., over 10 lbs..lb. .60 - .65
moulding, cns., dms., over 10 lbs..lb. .80 - 1.00
printing ink, cns., dms., over 10 lbs..lb. .55 - 1.20
radiator, cns., dms., over 10 lbs..lb. .45 - .50
Broomtop, bls.....lb. .14 - .15
Brown, iron oxide, pure precip., cks., f.o.b. N.Y.....lb. .11¼- —
Metallic, iron oxide, bbls., works. lb. .02¼- —
paper bags, c.l., works....lb. .0210- —
Sienna, burnt, American, bbls., f.o.b. works..lb. .03¼- —
Italian, Group 1, bbls., f.o.b. N.Y. or Pa. points..lb. .12½- —
2, bbls., same basis..lb. .11½- —
3, bbls., same basis...lb. .10½- —
4, bbls., same basis..lb. .09 - —
5, bbls., same basis...lb. .09 - —
6, bbls., same basis...lb. .08¼- —
7, bbls., same basis...lb. .08¼- —
8, bbls., same basis...lb. .08 - —
9, bbls., same basis...lb. .07½- —
10, bbls., same basis..lb. .07½- —
11, bbls., same basis..lb. .07 - —
12, bbls., same basis..lb. .06½- —
13, bbls., same basis...lb. .06¼- —
14, bbls., same basis..lb. .06¾- —
raw, American, bbls., f.o.b. works..lb. .02¾- —
Italian, Group 1, bbls., f.o.b. N.Y. or works..lb. .12¾- —
2, bbls., same basis..lb. .11¼- —
3, bbls., same basis...lb. .12¾- —
4, bbls., same basis...lb. .09¾- —
5, bbls., same basis...lb. .08¾- —
6, bbls., same basis...lb. .08¼- —
7, bbls., same basis...lb. .09 - —
8, bbls., same basis...lb. .07½- —
9, bbls., same basis...lb. .07 - —
10, bbls., same basis..lb. .06¼- —
11, bbls., same basis..lb. .05¼- —
Umber, American, bbls., works, lb. .03½- —
Turkey, bbls., l.c.l., f.o.b. Bethlehem, Easton, Pa., N. Y.....lb. .04¼- —
St. Louis.....lb. .04¾- —
ex car Los Angeles...lb. .05 - —
ex whse., Los Angeles, Portland, San Francisco, Seattle..lb. .05½- —
Boston .....lb. .04½- —
Chicago, Indianapolis, New Orleans.....lb. .05 - —
ex whse., Kansas City.. lb. .05½- —
Los Angeles, Portland, San Francisco, Seattle .....lb. .04¾- —
Minneapolis .....lb. .0510- —
Pittsburgh .....lb. .04¾- —
Vandyke, bbls., l.c.l.....lb. No prices.
Walnut crystals, bbls.....lb. .06½- —
Brucine, 100 oz., cns.....oz. .15 - —
Sulphate, 100 oz., cns.....oz. .12 - —
Bryonia root, bls.....lb. .15 - .16
Buchu leaves, bls.....lb. .77 - .78
Buckthorn bark, true, bls.....lb. .12 - .15
cut and sifted, bbls.....lb. .20 - .21
Berries, bgs.....lb. .25 - .30
Burdock root, bls.....lb. .14 - .15
Burgundy pitch, dom., dms...lb. .05½- .06
Butane, comi., 16-34°, tanks, group 3..gal. .02½- .03
Butternut bark, bls.....lb. .07 - .08
Butyl acetate, norm., cns., wks., lb. .14½- .16½
dms., c.l., frt. alld.....lb. .10 - —
dms., l.c.l., frt. alld.....lb. .10½- —
tanks, frt. alld.....lb. .09 - —
tankwagons, frt. alld....lb. .09½- —
contract prices 1c. per gal., less secondary, dms., c.l., frt. pd. E. of Miss. R..lb. .07½- —
dms., l.c.l., same terms.lb. .08 - —
tanks, same terms.....lb. .06½- —

Butyl, alcohol (see Alcohol):—
Aldehyde, dms., c.l., works..lb. .15¾- —
l.c.l., works.....lb. .16¾- .17¾
tanks, works.....lb. .14½- —
Carbinol (see Carbinol).
Chloride, normal, dms., c.l., works..lb. .20 - —
l.c.l. .....lb. .23 - —
Crotonate, normal, 55 gal. dms., dlvd..lb. .35 - —
5 gal. cns.....lb. .75 - —
1 gal. cns.....lb. 1.00 - —
Ether (see under Ether).
Lactate, dms. .....lb. .23½- —
Propionate, dms., dlvd.....lb. .16½- .17
tanks .....lb. .15½- —
Stearate, dms.....lb. .28½- —
Butyric ether, bots.....gal. 6.50 - 6.95
cns., works.....lb. .65 - .70
dms., frt. alld. Met. N. Y..lb. .60 - —

C

Cadmium, bromide, 25-lb. jars, 50 lbs. or more..lb. 1.56 - —
single jars.....lb. 1.61 - —
5-lb. bots.....lb. 1.75 - —
Iodide, 5-lb. bots.....lb. 4.19 - —
25-lb. cns.....lb. 4.05 - —
Lithopone (see Yellow).
Metal pat. shapes cs.....lb. .85 - —
ingots, or sticks.....lb. .80 - —
Red (see Red).
Selenide (see Red).
Sulphide (see Yellow).
Caffeine, 100-lb. dms., 10,000 lbs. or more..lb. 2.20 - —
2,000 lbs. or more.....lb. 2.25 - —
1,000 lbs. or more.....lb. 2.30 - —
100 lbs.....lb. 2.35 - —
25-lb. dms., 10,000 lbs. or more..lb. 2.25 - —
2,000 lbs. or more.....lb. 2.28 - —
1,000 lbs. or more.....lb. 2.33 - —
100 lbs.....lb. 2.43 - —
25 lbs.....lb. 2.55 - —
10-lb. cans, 10,000 lbs. or more..lb. 2.25 - —
2,000 lbs. or more.....lb. 2.30 - —
1,000 lbs. or more.....lb. 2.35 - —
100 lbs.....lb. 2.40 - —
less than 100 lbs.....lb. 2.75 - —
5-lb. cans, 25 lbs. or more..lb. 2.70 - —
less than 25 lbs.....lb. 2.85 - —
Citrated, cns.....lb. 1.80 - 2.10
Hydrobromine, bots.....lb. 4.91 - 4.99
Calabar beans, bgs.....lb. .27 - .28
Calamus root, peeled, N.F., cs., lb. .20 - .22
bleached, bls.....lb. .60 - .65
Calcium acetate, bgs., dlvd., 100 lbs. 1.90 - —
Arsenate, bgs., c.l., dealers, E. of Rockies..lb. .06¾- .07¼
W. of Rockies, bgs., dms., lb. .06½- .06¾
Southern cotton states, bgs., dms..lb. .06½- .06¾
Calcium arsenate prices are works or whse. basis, frt. alld. to dest. in lots of 96 lbs. or over; no frt. or truck allowance for plant or whse. pick-up.
Bromide, 100 lbs., works, frt. equaled..lb. .70 - —
50 lbs., works.....lb. .72 - —
25 lbs., works.....lb. .75 - —
Carbide, dms., c.l., dlvd.....lb. 4.75 - —
l.c.l., f.o.b. warehouse....lb. 4.85 - —
Carbonate (see Chalk and Whiting)
Chloride, flake, dom., 77-88%, bgs., dms., c.l., dlvd..ton.22.00 -35.00
l.c.l., 1 ton or over, dlvd., 100 lbs. 1.70 - 2.35
liquor, basis 40%, tanks, works..ton. 7.50 - —
solid, dom., 73-75%, bgs., dms., c.l., dlvd..ton.20.00 -33.00
l.c.l., 1 ton or over, dlvd., 100 lbs. 1.60 - 2.20
Gluconate, USP, gran., powd., 125-lb. bbls..lb. .50 - —
dms. .....lb. .55 - .57
cns. .....lb. .68 - .85
Glycerophosphate, fib., dms., 1,000-lb. lots..lb. 1.10 - —
smaller lots.....lb. 1.25 - —
cns., 25 lbs.....lb. 1.50 - —
Hypophosphite, cns.....lb. .62 - .67
Iodide, bots., jars.....lb. 4.04 - 4.19
Lactate, USP, bbls., 200 lbs..lb. .23 - —
Nitrate, bgs., to fert. mfrs., ex vessel Atlantic or Gulf ports, for shipment during Dec.-Jan.-Feb..ton.28.50 - —
Palmitate, bbls.....lb. .22 - .24
Phosphate, dibasic, precip., 38-40% P_2O_5, bgs., c.l.f., Atlantic ports, shipt...unit-ton. No prices
tribasic, c.l., bbls., works..lb. .0685- —
l.c.l., bbls.....lb. .0705- —
Resinate, precip., bbls., 1 ton, lb. .13 - —
smaller lots.....lb. .14 - —
Stearate, precip., bbls., ctns., c.l..lb. .20½- —
l.c.l., 1 ton.....lb. .22½- —
Sulphate (see Gypsum).
Sulphide, 70%, CaS., bgs., c.l., works..ton.46.00 - —
80% CaS., bgs., c.l., wks.ton.51.00 - —
luminous, dom., tins, works, 100 lbs..lb. 1.25 - —
Sulphocarbolate, bbls., 200 lbs., lb. .47 - .48
kgs., 100 lbs.....lb. .50 - —
Calendula flowers, bls.....lb. .35 - .40
Calomel, bbls., fib., dms., kgs., 50 lbs. or more..lb. 2.45 - —
Camphor, natural, powd., cs..lb. .85 - .90
slabs, cs.....lb. .85 - .90
tablets, tins.....lb. .90 - .95
synth., dom., tech., bbls., contract, 2,000 lbs. or more, works..lb. .35 - —
smaller lots, works....lb. .40 - —
USP, or import., gran. powd., bbls., 2,000-lb. lots..lb. .55 - —
1,000-lb. lots.....lb. .56 - —
smaller lots.....lb. .57 - —
tablets, 2,000-lb. lots....lb. .68 - —
1,000-lb. lots.....lb. .69 - —
smaller lots.....lb. .70 - —
Monobromate, bxs., kgs.....lb. 2.00 - 2.05
Canada balsam (see Fir balsam).
Canary seed, Argentina, bgs...lb. .03½- .04
Morocco, bgs.....lb. .0380- .0410
Turkish, bgs.....lb. .0380- .0410
Canella alba bark, bls.....lb. .45 - .50
Cantharides, Chinese, cs.....lb. .90 - .95
powd., bxs.....lb. 1.10 - 1.15
Russian, cs.....lb. 2.50 - 2.75
powd., bxs.....lb. 2.60 - 2.85
Capsicum (see Pepper, red).
Caraway seed, Dutch, bgs.....lb. .13 - .13½
Russian, bgs.....lb. .12¼- .12¾
Carbazole, 95%, dms., ton lots, works..lb. .70 - —
smaller quantities, works..lb. .80 - —
95%, dms., ton lots, works..lb. .75 - —
smaller quantities, works..lb. .85 - —

Black, Bone—Chamomile

Carbinol, butyl, norm., dms., Diethyl, dms., works.....lb. .60 - —
small lots, works.....lb. .75 - —
Dimethylethyl, dms., works..lb. .60 - —
small lots, works.....lb. .75 - —
Isobutyl, 128-132°, dms., c.l., works..lb. .33 - —
l.c.l., works.....lb. .34 - —
tanks, works.....lb. .32 - —
Carbon bisulphide, 55-gal. dms., c.l., frt. all'd. E. of Miss. R., N. of Ohio R..lb. .05 - —
l.c.l., same basis.....lb. .05¾- —
5-gal. dms., c.l., same basis, lb. .07 - .07½
l.c.l., same basis.....lb. .08 - .08½
Dioxide, cyls.....lb. .06 - .08
Tetrachloride, Zone 1, 52½-gal. dms., c.l., frt. alld..gal. .06½- —
l.c.l., frt. alld.....gal. .73 - —
5 or 10-gal. dms., c.l., frt. alld..gal. .90 - —
l.c.l., frt. alld.....gal. 1.00 - —
Zone 2, 52½-gal. dms., c.l., frt. alld..gal. .73 - —
l.c.l., frt. alld.....gal. .80 - —
5 or 10-gal. dms., c.l., frt. alld..gal. .97 - —
l.c.l., frt. alld.....gal. 1.07 - —
Zone 3, 52½-gal. dms., c.l., frt. alld..gal. .87 - —
l.c.l., frt. adll.....gal. .93 - —
5 or 10-gal. dms., c.l., frt. alld..gal. 1.10 - —
l.c.l., frt. alld.....gal. 1.20 - —
Zone 4, 52½-gal. dms., c.l.gal. .83 - —
l.c.l. .....gal. .90 - —
5 or 10-gal. dms., c.l..gal. 1.07 - —
l.c.l. .....gal. 1.17 - —

All prices on carbon tetrachloride are frt. alld. with the exception of Zone 4, in which case the prices indicated are based on f.o.b. cars, L. A., Cal.; S. F., Cal.; Portland, Ore., and Seattle, Wash. All packages are inclusive and not returnable. Zone 1, includes the following States:—Me., N. H., Vt., Mass., Ct., R. I., N. Y., N. J., Pa., Md., Del., Va., W. Va., N. C., Tenn., O., Ind., Mich., Ill., Wis., Minn., Ia., Mo., also the river towns of Burlington, Ia., and Kansas City, Kan. Zone 2 includes N. D., S. D., Neb., Kan., Okla., Ark., La., Miss., Ala., Ga., S. C. and Fla. Zone 3 includes that portion of Montana east of Billings and the states of Wyoming, Colo., N. M. and Texas. Zone 4 includes Wash., Idaho, Montana, Ore., Cal., Nev., Utah and Arizona.

Cardamon, bleached, cs.....lb. 1.40 - 1.70
decorticated, cs.....lb. 1.00 - 1.05
green, bgs.....lb. .80 - .81
Carob bean flour (see Gum, Locust bean).
Carvol, bots.....lb. 4.00 - 4.25
Cascara sagrada bark, bulk...lb. .14 - .16
Case-hardening mixture, 30% lump, dms., l.c.l..lb. .09 - —
Casein, dom., 20-30 mesh, bgs., c.l., dlvd..lb. .14 - —
5 tons, works.....lb. .15½- —
smaller lots, works.....lb. .20 - —
80-100 mesh, bgs.....lb. .14½- —
5 tons, works.....lb. .16 - —
smaller lots, works.....lb. .20½- —
import, Argent., 20-30 mesh, bgs., c.l., duty pd..lb. .12½- .13
80-100 mesh, bgs., c.l., duty paid..lb. .13 - .13½
French, 30 mesh, bgs., c.l., duty paid..lb. .16 - —
New Zealand, 20-30 mesh, c.l., bgs., duty paid..lb. .14½- —
Cassia, Batavia, No. 1, bls....lb. .17 - .17½
shortstick, bls.....lb. .14 - .14½
broken, bls.....lb. .13½- .14
China, rolls, select, bls.....lb. .10 - .10½
broken, extra, bls.....lb. .10 - .10½
Saigon, bls.....lb. .15½- .16
Cassia buds, cs.....lb. .14½- .14¾
Cassia fistula, bskts.....lb. .13 - .14
Castile soap, Italian, white, bars, 40-lb. cases..case.14.00 - —
powd., bbls.....lb. .33 - .36
Castoreum, nat., cns.....lb.15.00 -18.00
synth., bots.....lb.19.00 - —
Castor beans, Brazilian, f.o.b. shipt. ports..ton.95.00 -98.00
Oil (see Oil, castor).
Pomace, dom., 6½% ammon., bgs., c.l., works..ton.17.50 - —
import, bgs., c.i.f. ports, shipment..ton.20.00 - —
Celery seed, French, bgs.....lb. .17½- .18
Indian, bgs.....lb. .14½- .15
Celluloid scrap (see Pyroxylin scrap).
Cellulose, acetate, flake, gran., cs., 5,000 lbs. and over, frt. alld..lb. .34 - —
100 to 4,950 lbs., same basis..lb. .35 - —
less than 100 lbs., works..lb. .36 - —
Acetate-butyrate, high (20-40% butyryl content), 100-lb. ctn., 5,000 lbs. and up, frt. alld..lb. .45 - —
1,000-4,900 lbs., frt. alld.lb. .46 - —
100-900 lbs., frt. alld...lb. .47 - —
smaller pkg., works.....lb. .48 - —
low (up to 9.9%), 100-lb. ctn., 5,000 lbs. and up, frt. alld..lb. .41 - —
1,000-4,900 lbs., frt. alld.lb. .42 - —
100-900 lbs., frt. alld....lb. .43 - —
smaller pkg., works.....lb. .44 - —
medium (10-10.9%), 100-lb. ctn., 5,000 lbs. and up, frt. alld..lb. .43 - —
1,000-4,900 lbs., frt. alld.lb. .44 - —
100-900 lbs., frt. alld....lb. .45 - —
smaller pkg., works.....lb. .46 - —
acetate-propionate, high (20-40% propionyl content), 100-lb. ctn., 5,000 lbs. and up, frt. alld..lb. .45 - —
1,000-4,900 lbs., frt. alld.lb. .46 - —
100-900 lbs., frt. alld....lb. .47 - —
smaller pkg., works.....lb. .48 - —
low (up to 9.9%), 100-lb. ctn., 5,000 lbs. and up, frt. alld.lb. .41 - —
1,000-4,900 lbs., frt. alld.lb. .42 - —
100-900 lbs., frt. alld....lb. .43 - —
smaller pkg., works.....lb. .44 - —
medium (10-19.9%), 100-lb. ctn., 5,000 lbs. and up, frt. alld..lb. .43 - —
1,000-4,900 lbs., frt. alld.lb. .44 - —
100-900 lbs., frt. alld....lb. .45 - —
smaller pkg., works.....lb. .46 - —
triacetate, flake, cs., 5,000 lbs. and over, frt. alld....lb. .34 - —
100 to 4,950 lbs., same basis..lb. .35 - —
less than 100 lbs., works, lb. .36 - —
Cerium hydrate, dms., works..lb. .60 - —
oxalate, USP, bbls., works..lb. .36 - —
kgs., works.....lb. .37 - —
Chalk, precip., extra light, light, heavy, bgs., 50 lbs., c.l., f.o.b. works..lb. .02¾- —
cks., 250 lbs., c.l., f.o.b., works..lb. .03½- —
Chamomile flowers, Hungarian, genuine, cs..lb. .35 - .40
Roman, bls.....lb. .45 - .50

Charcoal—Dyes

Charcoal, softwood, gran., bgs., c.l., dlvd., Ala., Del., Ga., Ky., Md., Miss., N. J., N. Y., N. C., S. C., Tenn., Va., W. Va..ton 32.40 - —
Colo. .....ton 29.00 - —
Conn., Me., Mass., N. H., R. I., Vt., ton 32.80 - —
Ill. (except river point), Minn., Neb., Wis., ton 27.00 - —
Indiana .....ton 28.00 - —
Mo., Okla., Tex. (except El Paso).....ton 25.00 - —
c.l., dlvd., Kansas, El Paso, Tex..ton 26.00 - —
Michigan .....ton 29.80 - —
Ohio .....ton 29.80 - —
Penn. .....ton 31.80 - —
Utah .....ton 66.00 - —
Willow, powd., bbls.....lb. .06 - .07
Chestnut extract, clarif., 25% tan., bbls., c.l., works..lb. .02½- —
l.c.l., bbls., works.....lb. .02¾- —
tanks, works.....lb. .01¾- —
Chillies (see Pepper, red).
China clay, dom., dry-grd., air-float, 90-75%, 300 mesh, bgs., c.l., works..ton. 9.50 - —
l.c.l., works.....ton. 10.00 -16.00
bulk, c.l., works..ton. 7.60 - —
200 mesh, bgs., c.l., works..ton. 5.50 - —
l.c.l., works.....ton. 9.50 -15.50
wet-grd., silk-bolt, 99.9%, 325 mesh, bulk, c.l., works..ton. 9.50 - —
paper bgs., c.l., works, ton. 12.50 - —
Import, white, lump, bulk, c.l., ex dock, Balto., Boston, Norfolk, Phila..ton. 26.00 Nom.
powd., csks., l.c.l., ex dock, ton. 39.00 Nom.
ex whse.....ton. 42.00 Nom.
Chloral hydrate, bots., 1,000 lbs., lb. .93 - 1.02
500 lbs.....lb. .96 - 1.05
100 lbs.....lb. .98 - 1.07
25 lbs.....lb. 1.00 - 1.09
1-10 lbs.....lb. 1.05 - 1.12
dms., 1,000 lbs.....lb. .90 - —
500 lbs.....lb. .93 - —
100 lbs.....lb. .95 - —
Chlorinated rubber, 5 cps., bgs., c.l., works..lb. .40 - —
ton lots, works.....lb. .42 - —
smaller lots, works.....lb. .45 - .50
10-1,000 cps., bgs., c.l., works, lb. .35 - —
ton lots, works.....lb. .37 - —
smaller lots, works.....lb. .40 - .45
Chlorine, liq., cyls., c.l., dlvd., N. Y..lb. .05¼- —
contracts, dlvd., N. Y..lb. .05¼- —
l.c.l., dlvd., N. Y.....lb. .07¼- —
tanks, single unit, works, frt. equald..100 lbs. 1.75 - —
multiple unit, 3 or over, works, frt. equald..100 lbs. 1.90 - —
2, works, rt. equald., 100 lbs. 2.15 - —
1, works, frt. equald., 100 lbs. 2.60 - —
Chloracetophenone, tins, works..lb. 3.00 - 3.50
Chloreform, tech., 650-lb. dms..lb. .20 - —
100-lb. dms.....lb. .22 - —
50-lb. dms.....lb. .23 - —
USP, 650-lb. dms.....lb. .30 - —
100-lb. dms.....lb. .32 - —
50-lb. dms.....lb. .33 - —
Chloropicrin, com'l, 180-lb. cyls., works..lb. .80 - —
100-lb. cyls., works.....lb. .85 - —
5-25-lb. cyls., works.....lb. 1.00 - 1.15
Chrome acetate, powd., 24%, bbls., dlvd..lb. .13¼- —
solut., 5½%, cs., bbls.....lb. .05¾- —
Cake, bulk, c.l., works.....ton. 16.00 - —
Green (see Green, chrome).
Oxide (see Green, chrome).
Sulphate, pearls, dms., 100 lbs., lb. .40 - —
powd., dms., 100 lbs.....lb. .45 - —
scales, dms., 100 lbs.....lb. .45 - —
Trioxide (see Acid, chromic).
Yellow (see Yellow, chrome).
Chrysarobin, 5-lb. bot.....lb. 5.00 - —
Cinchona bark, quill, USP, 10 in., medium, cs..lb. .70 - .75
20 in., thick, cs.....lb. .70 - .75
20 in., medium, cs.....lb. .80 - .85
USP, broken quill, red, bgs., lb. .27 - .28
yellow, bgs.....lb. .27 - .28
Cinchonidine, crys., small cns., 100 ozs..oz. .86 - —
large, cns.....100 ozs..oz. .90 - —
powd., cns.....100 ozs..oz. .83 - —
Sulphate, N.F., cns. 100 ozs..oz. .50 - —

Cinchonidine buyers must pay a surcharge of 4c. per oz., to cover present war risk insurance, higher ocean freight rates, and additional expenses over the cost of usual business. Changes in these controlling factors will be reflected in the surcharge invoiced.

Cinchonine, crys., small, cns., 100 ozs..oz. .58 - —
large, cns.....100 ozs..oz. .62 - —
powd., cns.....100 ozs..oz. .54 - —
Sulphate, N.F., cns. 100 ozs..oz. .38 - —

Cinchonine buyers must pay a surcharge of 4c. per oz., to cover present war risk insurance, higher ocean freight rates and other expenses over the cost of usual business. Changes in these controlling factors will be reflected in the surcharge invoiced.

Cinchophen, USP, 5-lb. bxs., lb. 3.90 - —
1 lb., bots.....lb. 3.42 - —
100 lbs., dms.....lb. 3.15 - —
Cinnamic alcohol (see Alcohol, cinnamic).
Aldehyde, f.o.c., obys.....lb. .85 - .90
Cinnamon, Ceylon, 2 bls.....lb. .18½- .19
3 bls.....lb. .18 - .18½
Citral, bots., cns.....lb. 1.40 - 2.10
Citrine ointment, jars, tubes..lb. .92 - 1.14
Citronellal, bots., dms.....lb. .75 - .80
Citronellol, bots., dms.....lb. 1.60 - 1.65
Clove, Ambayna, bgs.....lb. .25 - .26
Madagascar, bls.....lb. .23 Nom.
Zanzibar, bls.....lb. .17 - .17½
Clover tops, bgs.....lb. .30 - .35
Coaltar, coal-gas, crude, bbls., c.l., works..bbl. 7.50 - 7.75
l.c.l., works.....bbl. 8.25 - 8.50
tanks, works.....gal. .07¼- .09
refd., bbls., c.l., works....bbl. 8.00 - 8.25
l.c.l., works.....bbl. 8.75 - 9.00
tanks, works.....gal. .08¼- .10
water-gas, crude, dms., c.l., works..dm. 7.50 - —
l.c.l., works.....dm. 8.25 - —
refd., dms., c.l., works....dm. 8.00 - —
l.c.l., works.....dm. 8.75 - —
Cobalt acetate, bbls., kgs., dlvd., lb. .71 - —
Carbonate, powd., bgs., works, lb. 1.38 - —
Chloride, kgs., wks.....lb. .76 - .80
Hydrate, bbls.....lb. 1.78 - —
Linoleate, paste, 6%, dms....lb. .51 - —
solid, 8¼%, bbls.....lb. .33 - —
Oleate, bbls.....lb. .25 Nom.
Cobalt, oxide, black, kgs.....lb. 1.84 - —
Resinate, fused A, bbls.....lb. .13½- —
1%, bbls.....lb. .13 - —
2%, bbls.....lb. .14 - —
3½%, bbls.....lb. .17½- —
precip., dms., dlvd.....lb. .34 - —
Sulphate, dms.....lb. .85 - —
Cocaine, hydrochloride, 100 ozs., cns..oz. 9.75 - —
Cochineal, gray, bgs.....lb. .37 - .38
Teneriffe, silver, bgs.....lb. .38 - .39
Cocoa butter, bulk, c.l., bgs...lb. .13 - .13¼
Cocillana bark, bgs.....lb. .40 - .45
Codeine, cns., 100 ozs.....oz. 11.70 - —
Hydrochloride, cns., 100 ozs..oz. 10.50 - —
Phosphate, cns., 100 ozs.....oz. 9.00 - —
Sulphate, cns., 100 ozs.....oz. 9.50 - —
Codliver oil (see Oil, codliver).
Cohosh, black, root, bls.....lb. .07 - .08
Blue, root, bls.....lb. .07 - .08
Colchicine, bots., 4 ozs.....oz. 18.00 - —
single, ozs.....oz. 19.00 - —
Colchicum seed, bgs.....lb. .35 - .37
Collodion, USP, dms., 325 lbs..lb. .12½- —
cns., 25 lbs.....lb. .16 - —
Flexible, USP, dms., 325 lbs.lb. .14½- —
cns., 25 lbs.....lb. .18 - —
Colocynth pulp, bls.....lb. .55 - .58
Colombo root, bls.....lb. .18 - .20
Coltsfoot leaves, bgs.....lb. .15 - .16
Condurango bark, bgs.....lb. .14 - .16
Conium leaves, bls.....lb. .30 - .32
Copaiba balsam, Para, cns....lb. .34 - .35
S. A. USP, cns.....lb. .36 - .37
Copper acetate, normal, bbls., dlvd..lb. .22 - —
smaller containers, dlvd..lb. .24 - —
Carbonate, 52-54%, bbls.....lb. .1600 Nom.
Chloride, cryst., bbls.....lb. .18 Nom.
Cyanide, tech., bbls.....lb. .34 Nom.
Iodide, bots.....lb. 5.15 - 5.19
Metal, electroylic.....lb. .12 - —
Nitrate, cryst., bbls.....lb. .17 Nom.
Oleate, precip., bbls.....lb. .20 - —
Oxide, black, 79-80% bbls., tons, works..lb. .18¾ Nom.
Red, com'l., 80-88%, kgs., f.o.b. N. Y..lb. .20 Nom.
Resinate, precip., bbls.....lb. .15 - .16
Stearate, precip., bbls.....lb. .24½- .25½
Sulphate, 99% cryst., bbls., c.l., f.o.b. works..100 lbs. 4.60 - —
l.c.l., 16-50 bbls., same basis, 100 lbs. 4.75 - —
6-15 bbls., same basis, 100 lbs. 4.95 - —
1-5 bbls., same basis, 100 lbs. 5.20 - —
monohydrated, dms., c.l., dealers, f.o.b. works..100 lbs. 9.15 - 9.40
l.c.l. dealers.....100 lbs. 10.15 -10.40
Copperas, cryst., gran., bgs., c.l., works..ton. 18.00 - —
bbls., c.l., works.....ton. 20.00 - —
l.c.l., 25 or over, works, 100 lbs. 1.55 - —
5-24, works.....100 lbs. 1.65 - —
1-4, works.....100 lbs. 2.00 - —
bulk, c.l., works.....ton. 14.00 - —
Copra, Coast, shipt.....lb. .0185 Nom.
Coriander seed, Morocco, bgs..lb. .04½- .05
bleached, bgs.....lb. .09½- .10
Corn sugar, Tanner's chipped, bgs., c.l., dlvd..100 lbs. 2.99 - —
slabs, bbls., c.l.....100 lbs. 2.91 - —
solid, bbls., c.l.....100 lbs. 3.03 - —
Syrup, 42°, bbls., c.l.....100 lbs. 3.02 - —
43° bbls., c.l.....100 lbs. 3.07 - —
Cornstilk, bls.....lb. .14 - .15
Corrosive sublimate, cryst., dms., 50 lbs. or more..lb. 2.04 - —
gran., powd., dms., 50 lbs. or more..lb. 1.89 - —
Cottonroot bark, bls.....lb. .11 - .12
Cottonseed hull ash, 32-36% pot-ash, bgs., dlvd., unit-ton. 1.10 - —
Coumarin, 5 lbs., or more, 25-lb. cns..lb. 2.75 - 3.00
5-lb. cns.....lb. 2.85 - 3.10
1-lb. cns.....lb. 3.00 - 3.25
1-oz. cns.....lb. 3.35 - 3.60
less than 5 lbs., cns.....lb. 4.15 - 4.65
Cramp, bark, genuine, bls.....lb. .23 - .24
so-called, bls.....lb. .06 - .07
Cranesbill root, bls.....lb. .15 - .16
Cream tartar, gran. or powd., bbls., 5,000 lbs., one shipm't, lb. .28¼- —
smaller lots, bbls.....lb. .28¾- —
kgs.....lb. .29¼- —
Creosote, beechwood, bots.....lb. .70 - .75
Hardwood, USP, bots.....lb. .45 - .47
Pine, dms.....gal. .38 - —
Carbonate, bots., cbys.....lb. 1.40 - 1.75
Creosote, oil, crude, tanks, works, gal. .13¼- .14¼
Coaltar, solution, tanks, works, gal. .122 - .132
refd., bbls., l.c.l., works..gal. .25 - —
tanks, works.....gal. .18 - .18½
Cresol, USP, dms., c.l., works..lb. .09¾- —
l.c.l., same basis.....lb. .10¼- —
special resin grade, dms., c.l., works..lb. .08¾- —
l.c.l., same basis.....lb. .09¼- —
Crotonaldehyde, 97%, 55 and 110 gal. c.l., works..lb. .11 - —
l.c.l., works.....lb. .13 - —
5 and 10 gal. dms., works..lb. .15 - —
Cube root, powd., 5% rotenone, bbls., f.o.b. N.Y.C., frt. equaled, with shipments from Newark and Balto. Prices for Pacific Coast are plus frt., 10,000 lbs. or more..lb. .24 - .25
2,000 lbs. to 10,000 lbs..lb. .25 - .26
1,000 lbs. to 2,000 lbs..lb. .26 - .27
200 lbs. to 1,000 lbs.....lb. .27 - .28
4% rotenone prices are 4c. per lb. less.

Cube, powd., contracts have no protection against decline in price. Part deliveries against contract are billed at price for smaller quantities, subject to adjustment when contract quantity is reached.

Cubeb berries, XX, bgs.....lb. .42 - .44
powd., cs.....lb. .47 - .48
Culver's root, bls.....lb. .15 - .16
Cumin seed, Malta, bgs.....lb. No stocks
Morocco bgs.....lb. .15¼- .15¾
Cutch, Borneo, extract, solid, contract, f.o.b. N. Y., duty paid..lb. .04½- —
Cyanamide, 22%, N_2, pulv., bgs., dlvd., contracts, N_2, unit ton. 1.27½- —
Cyanide-chloride, mixture, 45%, gran., dms..lb. .10¾- —
lump, dms.....lb. .09¾- —
75%, gran., dms.....lb. .15 - —
Cyclohexane, 98-100%, dms., works, frt. alld. E. of Rockies...lb. .25 - —
Cyclohexanol, 98-100%, dms., works, frt. alld. E. of Rockies...lb. .30 - —
Cyclohexanone, 98-100%, dms., works, frt. alld. E of Rockies..lb. .59 - —

D

Damiana leaves, bls.....lb. .30 - .35
Dandelion root, German, bls...lb. .42 - .45
Deertongue leaves, bls.....lb. .15 - .16
Degras, common, dom., bbls...lb. .09½- .10
English, bbls.....lb. .09½ Nom.
neutral, dom., bbls.....lb. .15 - .18
English, bbls.....lb. .15 - .18
Derris root, powd., 5% rotenone, bbls., f.o.b. N.Y.C., frt. equal'd, with shipments from Newark and Balto. Prices for Pacific Coast are plus frt., 10,000 lbs., or more..lb. .24 - .28
2,000 lbs. to 10,000 lbs...lb. .26 - .30
1,000 lbs. to 2,000 lbs.....lb. .28 - .32
200 lbs. to 1,000 lbs.....lb. .30 - .34
4% rotenone prices are 6c. per lb. less.

Derris root, powd., contracts give no protection against decline in price. Part deliveries against contracts are billed at price for such smaller quantities, subject to adjustment when contract quantity is reached.

Derris, extract, 25% rotenone, bulk, cns..lb. 4.00 - 5.00
16% rotenone, bulk, cns.....lb. 2.25 - 3.25
Dextrin, British gum, c.l., f.o.b. Chicago..100 lbs. 3.65 Nom.
l.c.l., f.o.b. Chicago..100 lbs. 3.75 Nom.
Corn, canary, bgs., c.l., f.o.b. Chicago..100 lbs. 3.40 Nom.
l.c.l., f.o.b. Chicago..100 lbs. 3.60 Nom.
white, bgs., c.l., f.o.b. Chicago..100 lbs. 3.35 Nom.
l.c.l., f.o.b. Chicago..100 lbs. 3.55 Nom.
Potato, import, bgs.....lb. .07¾ Nom.
Diacetone (see under Alcohol).
Diacetyl, bots.....lb. 10.00 -11.00
Diamyl ether, dms., c.l., works, lb. .085 - —
l.c.l., works.....lb. .092 - —
tanks, works.....lb. .075 - —
Oxalate, dms., l.c.l., works...lb. .20 - —
Phthalate, dms., c.l., dlvd...lb. .21 - —
l.c.l., dlvd.....lb. .21½- —
tanks, dlvd.....lb. .20 - —
Sulphide, dms., l.c.l., works..lb. 1.10 - —
Diamylamine, dms., c.l., works, lb. .47 - —
l.c.l., works.....lb. .48 - .50
tanks, works.....lb. .45 - —
Diamylene, dms., c.l., works...lb. .095 - —
l.c.l., works.....lb. .102 - —
tanks, works.....lb. .085 - —
Diamylnaphthalene, dms., l.c.l., works..lb. .20 - —
Diamylphenol (2, 4), dms., c.l., works..lb. .17 - —
l.c.l.....lb. .20 - —
Diatomaceous earth, dom., bgs., c.l., Pacific cst., works, ton. 22.00 -35.00
l.c.l., ex whse.....ton. 45.00 -150.00
Import, bgs., c.l., c.i.f.....ton. 23.00 Nom.
Dibutylamine, dms., c.l., works, lb. .50 - —
l.c.l.....lb. .51 - .53
tanks, works.....lb. .48 - —
Dibutyl ether (see Ether, butyl).
Phthalate, dms., c.l., dlvd...lb. .19 - —
l.c.l., dlvd.....lb. .19½- —
tanks, dlvd.....lb. .18 - —
cns., works.....lb. .23½- .25½
Sebacate, dms., works.....lb. .45 - —
Tartrate, dom., dms.....lb. .50 - —

Dicalcium phosphate (see Calcium phosphate dibasic).

Dichlorethyl ether, dms., c.l., works..lb. .15 - —
l.c.l., works.....lb. .16 - —
tanks, works.....lb. .14 - —
Dichloropentane, dms., c.l., works, lb. .0221- —
l.c.l.....lb. .04 - —
tanks.....lb. .025 - —
Diethanolamine, dms., c.l., works, lb. .23½- —
l.c.l., works.....lb. .24½- —
tanks, works.....lb. .22½- —
Diethylamine, dms., l.c.l., works, lb. .70 - —
Diethyl carbonate, coml., dms..lb. .25 - —
refd., 99%, dms.....lb. .35 - —
Carbinol (see Carbinol).
Phthalate, dms., c.l., frt. alld., lb. .19 - —
l.c.l.....lb. .19½- —
tanks.....lb. .18 - —
Sulphate, dms., c.l., works...lb. .13 - —
l.c.l., works.....lb. .14 - —
tanks.....lb. .12 - —
Diethylaniline, dms.....lb. .40 - —
Diethyleneglycol, dms., c.l., works, lb. .14½- —
l.c.l., works.....lb. .15½- —
Monobutylether, dms., works..lb. .22½- .24½
Monoethylether, dms., c.l., works..lb. .14½- —
l.c.l., works.....lb. .15½- —
tanks, works.....lb. .13½- —
Digitalis leaves, dms.....lb. .35 - .40
Diglycol, laurate, c.l.....lb. .16 - —
Oleate, light, bbls., c.l.....lb. .17 - —
Stearate, bbls., c.l.....lb. .22 - —
Di-isobutyl ketone, dms., works, lb. .19 - —
Dillseed, recleaned, bgs.....lb. .09½- .10
Dimethyl phthalate, dms., c.l., dlvd..lb. .18½- —
l.c.l., dlvd.....lb. .19 - —
tanks, dlvd.....lb. .17½- —
Dimethylanilin, dms., c.l.....lb. .23 - —
l.c.l., dms.....lb. .24 - —
Dimethylamine, dms., c.l., dlvd., lb. 1.00 - —
l.c.l., dlvd.....lb. 1.05 - —
Dimethylethyl carbinol (see Carbinol)
Dinitrobenzene, bbls., 80° min., lb. .18 - —
Dinitrochlorobenzene, dms.....lb. .14 - —
Dinitronaphthalene, kgs.....lb. .22 - .24
Dinitrophenol, bbls.....lb. .22 - —
Dinitrotoluene, dms.....lb. .15½- —
oily, dms.....lb. .09 - —
Diorthotoluolguanidin, dms., 2,000 lbs. or over, dlvd..lb. .44 - —
600-1,950 lbs., dlvd.....lb. .46 - —
150-450 lbs., dlvd.....lb. .47 - —
Dioxan, dms., c.l., frt. alld....lb. .20 - —
l.c.l., same basis.....lb. .21 - —
tanks, same basis.....lb. .19 - —
Dip oil (see Tar acid oil).
Dipentene, dms.....gal. .47 - .50
tanks.....gal. .41 - —
dest. dist., dms.....gal. .45 - .48
tanks.....gal. .38 - —
Diphenyl, bbls., c.l., works....lb. .15 - —
l.c.l., works.....lb. .16 - .20
Diphenylamine, bbls.....lb. .50 - .55
Diphenylguanidin, dms., 2,000 lbs., or over, dlvd..lb. .35 - —
600-1,950 lbs., dlvd.....lb. .36 - —
150-450 lbs., dlvd.....lb. .37 - —
Diphenylmethane, bots.....lb. 1.40 - 2.00
Dimethylethyl carbinol (see Carbinol).
Doggrass root, cut, bls.....lb. .16 - .17
Dogwood bark, Jamaica, bls., lb. .07 - .09
Dover's powder, USP, cns.....lb. 2.75 - 2.80
Dragon's blood, mass, cs.....lb. .65 - .70
reeds, thin, cs.....lb. 1.05 - 1.10

Dyes, coaltar (certified colors) for foods, drugs and cosmetics:—
Blue, FD&C blue, No. 1, cns..lb. 13.50 - —
FD&C blue, No. 2, cns.....lb. 13.50 - —
FD&C green, No. 2, cns....lb. 17.50 - —
FD&C green, No. 3, cns....lb. 27.50 - —
Green, FD&C green, No. 1, cns. lb. 13.50 - —
Orange, FD&C orange, No. 1, cns..lb. 2.99 - —
FD&C orange, No. 2 cns..lb. 3.65 - —

Dyes, coaltar (certified colors) for foods, drugs and cosmetics:—
Red, FD&C red, No. 1, cns..lb. 6.00 - —
FD&C red, No. 2, cns.....lb. 3.15 - —
FD&C red, No. 3, cns.....lb. 17.50 - —
FD&C red, No. 4, cns.....lb. 5.75 - —
FD&C red, No. 32, cns...lb. 3.70 - 4.15
Yellow, FD&C yellow, No. 1, cns..lb. 5.50 - —
FD&C yellow, No. 3, cns..lb. 2.65 - —
FD&C yellow, No. 4, cns..lb. 2.65 - —
FD&C yellow, No. 5, cns..lb. 3.15 - —
FD&C yellow, No. 6, cns..lb. 3.15 - —

Dyes, coaltar (certified colors) for drugs and cosmetics:—
Black, D&C black, No. 1, lb. 8.00 - 8.35
Brown, D&C brown, No. 1, cns. lb. 12.35 - —
Green, D&C green, No. 5, cns. lb. 12.35 - —
D&C, green, No. 6, cns....lb. 12.35 - —
Orange, D&C orange, No. 4, cns..lb. 8.35 - —
D&C orange, No. 4, cns....lb. 15.35 - —
D&C orange, No. 10 cns...lb. 15.35 - —
D&C orange, No. 11 cns...lb. 17.35 - —
Red, D&C, red, No. 17, cns..lb. 8.35 - —
D&C, red No. 19, cns.....lb. 15.35 - —
D&C red, No. 22, cns.....lb. 8.35 - —
D&C red, No. 37, cns.....lb. 12.35 - —
Yellow D&C yellow, No. 7, cns. lb. 8.35 - —
D&C yellow, No. 8, cns....lb. 8.35 - —
D&C yellow, No. 11 .....lb. 10.00 -10.35

Dyes, coaltar (certified colors) for external use drugs and cosmetics:—
Blue,, Ext.D&C blue, No. 1, cns..lb. 12.35 - —
Green, Ext.D&C, green, No. 1, cns..lb. 12.35 - —
Red, Ext. D&C, red, No. 1, cns..lb. 10.35 - —
Ext.D&C, red, No. 10, cns.. lb. 12.35 - —
Ext.D&C, red, No. 11, cns. lb. 12.35 - —
Ext.D&C, red, No. 13, cns.. lb. 12.35 - —
Yellow, Ext.D&C, yellow, No. 1, cns..lb. 8.35 - —

Dyes, coaltar, for general uses (numbers are those of Colour Index scale):—
36 Chrome yellow 2G....lb. .65 - .70
40 Chrome yellow R.....lb. .50 - 1.00
53 Victoria violet.....lb. .80 - 1.00
165 Lake red C.....lb. .80 - .85
176 Fast red A.....lb. .56 - .60
180 Fast red VR.....lb. 1.50 - 1.60
189 Lake red R, paste....lb. .85 - .90
189 Lake red R, powd....lb. 3.00 - 3.10
202 Chrome blue black U..lb. .32 - .40
204 Chrome black A.....lb. 1.75 - 2.00
208 Fast red blue R.....lb. .75 - 2.00
216 Chrome red B.....lb. 1.50 - 2.00
262 Cloth red 2B.....lb. .60 - .80
289 Fast cyanin 5R.....lb. .90 - 1.00
299 Chrome black F.....lb. .60 - .65
307 Fast cyanin black B.lb. .80 - .85
326 Direct cast scarlet....lb. 2.00 - 2.25
304 Paper yellow.....lb. .83 - .90
365 Chrysophenin G.....lb. .58 - .70
394 Direct violet N.....lb. 1.25 - 1.35
382 Direct scarlet B.....lb. 1.50 - 1.75
387 Direct violet B.....lb. 1.00 - 1.50
401 Developed black BHN, lb. .45 - .60
406 Direct blue 2B.....lb. .25 - .30
415 Direct orange R.....lb. .60 - .70
419 Direct fast red F.....lb. .75 - .85
420 Direct brown M.....lb. 1.00 - 1.10
448 Benzo purpurin 4B...lb. .40 - .42
466 Benzo purpurin 10B..lb. .40 - .50
502 Direct azurin G.....lb. .75 - .80
512 Direct blue RD.....lb. .80 - 1.00
518 Direct pure blue 6B..lb. 1.10 - 1.35
520 Direct pure blue.....lb. .50 - 1.00
529 Direct fast, black, FF.lb. .55 - 1.00
581 Direct black EW.....lb. .25 - .50
582 Direct black RX.....lb. .35 - .45
593 Direct green B.....lb. .75 - .80
594 Direct green G.....lb. 1.00 - 1.05
596 Direct brown 3GO....lb. .35 - 1.00
620 Direct yellow R.....lb. 1.25 - 1.50
698 Acid violet.....lb. 1.00 - 3.00
812 Primulin .....lb. .50 - .52
814 Direct fast yellow....lb. 2.00 - 2.25
845 Nigrosin (water soluble), lb. .35 - .50
1177 Indigo, 20 p. c. paste.lb. .15 - .18
Benzo fast black L...lb. .90 - 1.00
Sulphur black.....lb. .20 - .25
Sulphur blue.....lb. .40 - 1.00
Sulphur brown.....lb. .25 - .50
Sulphur maroon.....lb. .40 - —
Sulphur olive.....lb. .25 - .54
Sulphur tan.....lb. .30 - .50
Sulphur yellow.....lb. .30 - .50
Zambesi black.....lb. .75 - .80

Dyes, coaltar, for stains, oil-soluble (prices in barrels of 100 lbs.; lots of 25 pounds to a barrel are 3c. per lb. higher; f.o.b. sellers' works or warehouse)
Black:—
865 Nigrosin derivatives..lb. .38 - .62
Blue:—
1075 Alizarin astrol base..lb. 15.00 - —
1078 Alizarin cyanin green base..lb. 6.00 - —
Browns:—
Brown .....lb. 1.15 - —
Green:—
1078 Alizarin cyanin green.lb. 5.00 - —
.... Green .....lb. .75 - —
Orange:—
24 Sudan I.....lb. .75 - —
.... Orange, red shade....lb. .75 - —
Red:—
75 Sudan II.....lb. 1.05 - —
258 Sudan IV.....lb. .95 - —
749 Rhodamine B (oil pink), lb. 2.50 - —
1080 Anthraquinone violet base..lb. 6.00 - —
680 Oil violet.....lb. .50 - —
Yellow:—
15 Amidoazobenzene yellow..lb. .90 - —
17 Amidoazotoluene yellow, lb. .75 - —
61 Yellow OB.....lb. 1.40 - —

Spirit-soluble (prices in barrels of 250 lbs. each; lots of 25 lbs. to a barrel, 3c. per lb. higher; f.o.b. sellers' works or warehouse).
Black:—
864 Nigrosin .....lb. .38 - .44
Blue:—
860 Indulin .....lb. .60 - .70
Brown:—
331 Bismarck brown.....lb. 1.50 - —
Green:—
637 Malachite green base.lb. 2.00 - —
Orange:—
20 Chrysoidin G.....lb. .95 - —
21 Chrysoidin R.....lb. .95 - —
Red:—
677 Fuchsin, magenta base, lb. 7.25 - —
749 Rhodamine B.....lb. 4.75 - —
Yellow:—
67 Amidoazotoluene yellow, lb. .75 - —
655 Auramine .....lb. 2.00 - —
800 Chinolin yellow SS...lb. 2.00 - —
Violet:—
680 Methyl violet base...lb. .90 - —

Water-soluble (prices in barrels of 250 lbs. each; lots of 25 lbs. to a barrel, 3c. per lb. higher; f.o.b. sellers' works or warehouse).

Dyes, coaltar, for stains, oil soluble (prices in barrels of 100 lbs.; lots of 25 pounds to a barrel are 3c. per lb. higher; f.o.b. sellers' works or warehouse).

Black:—
246 Naphthol blue black S, lb. .50 - —
873 Methylene gray....lb. 1.50 - —

Blue:—
714 Patent blue A....lb. 1.45 - —
729 Victoria blue B....lb. 2.00 - —
861 Indulin ....lb. .87 - —
909 New blue R....lb. 1.30 - —
922 Methylene blue....lb. 1.00 - —
1054 Alizarin saphirol B...lb. 1.90 - —
1180 Indigotin IA....lb. .85 - —

Brown:—
234 Resorcin brown Y....lb. .65 - —
235 Resorcin dark brown R, lb. .66 - —
231 Bismarck brown G...lb. .40 - .52
332 Bismarck brown R...lb. .40 - .52
793 Phosphin ....lb. 4.65 - —

Green:—
5 Naphthol green B....lb. 1.00 - —
657 Malachite green....lb. 1.35 - —
662 Brilliant green....lb. 2.00 - —
666 Guinea green B....lb. 1.15 - —
737 Wool green S....lb. .58 - —
924 Methylene green B...lb. 1.55 - —
1078 Alizarin cyanin green, lb. 2.35 - —

Orange:—
10 Chrysoidin G....lb. .40 - —
21 Chrysoidin R....lb. .37 - —
27 Orange G....lb. .50 - —
151 Orange Y....lb. .30 - —
161 Rrange R....lb. .34 - —
31 Amidonaphthol red G.lb. .42 - —
37 Amidonaphthol red 6B, lb. .68 - —
79 Popceau R....lb. .48 - —
88 Fast red B....lb. 1.05 - —
176 Fast red A....lb. .54 - —
179 Azorubin ....lb. .60 - .62
183 Crocein scarlet 3BX..lb. .72 - .75
185 Cochineal red A....lb. .60 - —
252 Brilliant crocein M...lb. .68 - —
677 Fuchsin ....lb. 2.10 - —
749 Rhodamine B....lb. 3.50 - —
752 Rhodamine 6G....lb. 4.50 - —
768 Eosin G....lb. 1.50 - —
841 Safranin ....lb. 1.45 - —

Violet:—
680 Methyl violet B....lb. .75 - —
681 Crystal violet C....lb. 1.75 - —
695 Acid violet 4BN....lb. .88 - —

Yellow:—
10 Naphthol yellow S...lb. .88 - —
138 Metanil yellow....lb. .53 - —
636 Fast light yellow....lb. 1.25 - —
639 Xylene light yellow..lb. 1.15 - —
640 Tartarzin ....lb. .80 - —
655 Auramine ....lb. 1.27 - —

Dyes, natural (see name of article).

E

Echinacea root, bls....lb. .18 - .19
Egg albumen (see Albumen).
yolk, dom., bbls....lb. .60 - .62
imported ....lb. .56 - .58
Elder flowers, bright, bls....lb. .40 - .45
Elecampane root, bls....lb. .10 - .11
Elm bark, grinding, bls....lb. .11 - .12
powd., bbls., bxs....lb. .21 - .22
select, bndls....lb. .19 - .21
Emetine hydrochloride, bots...oz. 19.00 -19.50
Ephedra, bls....lb. .10 - .10½
Ephedrine, tins, 1,000 ozs....oz. 1.50 - —
tins, 100 ozs....oz. 1.60 - —
Hydrochloride, tins, 1,000-oz. lots..oz. 1.25 - —
tins, 100-oz. lots....oz. 1.35 - —
Sulphate, cryst., tins, 1,000-oz. lots..oz. 1.25 - —
tins, 100-oz. lots....oz. 1.35 - —
Epsom salt, tech., bgs....100 lbs. 1.80 - —
bbls. ....100 lbs. 1.90 - —
USP, cryst., dom., bgs., c.l., 100 lbs. 2.00 - —
l.c.l., 5,000 lbs. 1 withdrawal..100 lbs. 2.25 - —
smaller lots....100 lbs. 2.50 - —
bbls., c.l....100 lbs. 2.10 - —
l.c.l., 5,000 lbs. 1 withdrawal..100 lbs. 2.35 - —
smaller lots....100 lbs. 2.60 - —
kgs., c.l....100 lbs. 2.35 - —
l.c.l., 5,000 lbs. 1 withdrawal..100 lbs. 2.60 - —
smaller lots....100 lbs. 2.85 - —
dried, dom., bgs., l.c.l....lb. .08 - .09
Ergot, USP, cns., dms....lb. 3.85 - 4.00
Eserine, bots....oz. 42.00 - —
Salicylate, bots....oz. 36.00 - —
Sulphate, bots....oz. 36.00 - —
Ether, acetic (see Ethyl acetate).
Butyl, l.c.l., dlvd....lb. .25 - —
Ethyl (see Ether, sulphuric).
Nitrous, conc., bots., 100 lbs., lb. .68 - —
Sulphuric, conc., dms., 120 lbs. lb. .09 - —
cns., 27 lbs....lb. .14 - —
synth., dms., c.l., works...lb. .08 - —
l.c.l., works....lb. .09 - —
USP, anesthesia, dms., 27 lbs., lb. .26 - —
USP, 1880, dms....lb. .39 - .40
washed, dms....lb. .37 - .38
Ethyl acetate, 85-90%, dms., c.l., frt. alld..lb. .075 - —
l.c.l., frt. alld....lb. .08 - —
tanks, frt. alld....lb. .065 - —
95-98%, dms., c.l., frt alld..lb. .0775- —
l.c.l., frt. alld....lb. .0825- —
tanks, frt. alld....lb. .0675- —
USP, XI, dms., 460 lbs....lb. .09 - —
cns., 35 lbs....lb. .13 - —
Acetoacetate, dms., c.l., wks.lb. .27½- —
l.c.l., dms., works....lb. .28 - —
Bromide, tech., dms....lb. .50 - .55
Caproate, cns....lb. 1.00 - —
Chloride dms....lb. .18 - .20
Cinnamate, cns....lb. 3.20 - 4.00
Crotonate, 55 gal. dms., dlvd., lb. .35 - —
Formate, cns., dms....lb. .23 - .24
5 and 10 gal. dms., dlvd....lb. .75 - —
1 gal. cns....lb. 1.00 - —
Iodide, bots....lb. 3.50 - 3.65
Lactate, 55-gal. dms., works, lb. .33½- —
5-gal. dms., works....lb. .37½- .39½
Oxalate, dms., frt. alld....lb. .25 - —
Silicate, l.c.l., dms., works..lb. .77 - —
Vanillin, 25-lb. lots, cns....lb. 6.00 - —
5-lb. lots....lb. 6.05 - —
1-lb. lots, cns....lb. 6.15 - —
Ethylcellulose, contracts, bgs., c.l., frt. alld..lb. .45 - —
contracts, 500 lbs. or more, frt. alld..lb. .47 - —
500 lbs. or more, frt. alld..lb. .48 - —
100 to 499 lbs., frt. alld..lb. .50 - —
smaller lots, works....lb. .55 - —
Ethylene bromide, dms....lb. .65 - .70
Dichloride, dms., c.l., works, E. of Rockies, frt. alld..lb. .0595- —
West of Rockies, same basis—lb. .0644- —
l.c.l., works, E. of Rockies, frt. alld..lb. .0694- —
West of Rockies, same basis..lb. .0743- —
Ethyleneglycol, dms., c.l....lb. .14½- —
l.c.l. ....lb. .15½- .18½
tanks ....lb. .13½- —
Monobutylether, dms., c.l.,works, lb. .16½- —
l.c.l., works....lb. .17½- .20½
tanks, works....lb. .15½- —
Monoethylether, dms., c.l.,works, lb. .14½- —
l.c.l., works....lb. .15½- .18½
tanks, works....lb. .13½- —
Monoethylether, acetate, dms., c.l., works..lb. .11½- —
l.c.l., dms....lb. .12½- .15½
tanks, works....lb. .10½- —
Monomethylether, dms., c.l., works..lb. .13½- —
l.c.l., works....lb. .16½- —
tanks, works....lb. .14½- —
Ethylidinanilin, dms....lb. .45 - .47½
Eucalyptol, cns., dms....lb. .85 Nom.
Eucalyptus leaves, bls....lb. .13 - .15
Eugenol, cns., dms....lb. 2.25 - 2.30
Euphorbia, bls....lb. .13 - .15

F

Feldspar, enamel, 100 mesh, bulk, works..ton. 14.00 -17.50
l.c.l., minimum 2 tons..ton. 17.00 -20.50
glass, 20 mesh, bulk, works.ton. 9.75 -13.25
l.c.l., minimum 2 tons...ton. 12.75 -16.25
pottery, bulk, Me., works...ton. 17.00 -19.00
N.C., works....ton. 17.00 -19.00
l.c.l., minimum 2 tons..ton. 20.00 -22.00
Fennel seed, Indian, bgs....lb. .14½- .14¾
German, large, bgs....lb. .33 - .34
Fenugreek seed, bgs....lb. .06 - .06½
Ferric, sulphate, anhyd., c.l., works..ton. 35.00 - —
l.c.l. ....ton. 40.00 - —
Film scrap, colors, dark, cs., 1,000 lbs., or over, works..lb. .11½- —
smaller lots, works...lb. .13 - —
light, cs., 1,000 lbs. or over, works..lb. .12½- —
smaller lots, works....lb. .14 - —
water white, cs., 1,000 lbs. or over, works..lb. .13½- —
smaller lots, works...lb. .15 - —
Fir balsam, Canada, cns....gal. 12.75 -13.00
Oregon, bbls....gal. 1.10 - 1.15
Fish berries, bgs....lb. .15 - .17
Fish scrap, menhaden, dried, 11-12% ammon., 15% bone phos., bulk, Chesapeake factories, contracts, futures..unit-ton. 4.25 Nom.
grd., 11-12% ammon., 15% bone phos., bgs., f.o.b. Balto..ton. 59.00 - —
wet, acidulated, 6-7% ammon., 3-% phosphor. acid, bulk, So. Atlantic factories, contracts..unit-ton. 3.00 & .50
sardine, meal, Japanese, 11½% ammon., bgs., c.i.f. ports, Feb. shipt..ton. 51.00 - —
spot..ton. 51.00 - —
Flake, white, bbls., kgs....lb. .10¼- —
Fleaseed, French, black, bgs..lb. .20 - .21
Indian, blonde, bgs....lb. .09 - .10
Fluorspar, dom., No. 1 ground, bulk, 95-98%, f.o.b. mines, net ton. 32.60 - —
washed gravel, 85.5 f.o.b. Ky. Ill.-Ky.mines..net ton. 21.00 - —
No. 2, lump, 85.5 f.o.b. Ky. and Ill., mines..net ton. 21.00 - —
imported, 85.5, duty paid, short ton. 25.00 Nom.
Formaldehyde, bbls., c.l., works, lb. .05¾- —
l.c.l., works....lb. .06¼- —
dms., c.l., works....lb. .05¼- —
l.c.l., works....lb. .06¼- —
tanks, works....lb. .04½- —
Fringetree bark, bls....lb. .14 - .15
Fullers earth, dom., bgs., c.l., f.o.b. Fla., Ga., mines..ton. 10.00 - —
import, bgs., c.l., ex dock..ton. 25.00 Nom.
l.c.l., ex whse....ton. 32.00 Nom.
Furfural, refd., dms., c.l., works, lb. .15 - —
l.c.l., works....lb. .17½- .25
tech., dms., contracts, 150,000 lbs..lb. .10 - —
c.l., works....lb. .12½- —
l.c.l., works....lb. .15 - .20
tanks, works....lb. .09 - —
Fusel oil, refd., dms., incl., dlvd., lb. .16 - .17½
Fustic extract, cryst., bbls....lb. .24 - .28
liquid, bbls....lb. .10¼- .14
solid, dms....lb. 19 - .21

G

G salt, bbls....lb. .45 - —
Galangal root, bls....lb. .11 - .12
Gambier, common, cases....lb. .07 Nom.
plantation, cases....lb. .10 Nom.
Cubes, Singapore, cases....lb. .10 Nom.
extract, bbls....lb. .09½- .12
Gasoline, at refinery:—
Bayonne, US motor, below 65 octane, tanks..gal. .06½- .0780
65 octane and above, tanks, gal. .06¾- .0735
California, 54-58, tanks...gal. .06½- .08
Gulf Coast, U. S. Motor, bulk, gal. .05⅝- —
60-62, 390 e.p., bulk, export, gal. .05⅝- —
70-72, 400 e.p., bulk, export, gal. .06¼- —
63-67, 375 e.p., bulk, export, gal. .05⅝- —
Louisiana-Arkansas, US motor, 62 octane, tanks..gal. .04 - .04¼
63-66 octane, tanks....gal. .04¼- .04½
67-69 octane, tanks....gal. .04½- .04¾
70-72 octane, tanks....gal. .04⅝- .05¼
Oklahoma-Texas, US motor, 62 octane and below, tanks, gal. .03¼- .04
third grade, tanks....gal. .03¼- .04
63-66 octane, tanks....gal. .03½- .04½
67-69 octane, tanks....gal. .03⅝- .04⅝
70-72 octane, tanks....gal. .04 - .04¾
U. S. motor, 18-lb. v.p., tanks..gal. .05¼- .05¼
22-lb. v.p., tanks....gal. .04¾- —
26-70 lb. v.p., tanks...gal. .04 - .04¼
below 60 octane, tanks.gal. .05 - —
65 octane, tanks....gal. .07 - —
52-54 450 e.p., naphtha, tanks..gal. .05½- —
natural, 12-lb. v.p., tanks, gal. .02⅝- .02¾
14-lb. v.p., tanks....gal. .02 - .02¼
Gelatin, silver, cs....lb. .42 - .43
Geisemium root, bls....lb. .14 - .15
Gentian root, bls....lb. .14 - .15
grd., bbls., bxs....lb. .16 - .17
powd., bbls., bxs....lb. .17 - .18
Geraniol, cns., dms....lb. .60 3.00
Geranyl acetate, bots., dms...lb. 1.20 - 2.50
Ginger root, African, bgs....lb. .10 - .10½
Cochin, leman, bgs....lb. .09½ Nom.
Jamaica, bold, bgs....lb. .12 - .13
grinding, bright, bgs....lb. .09½- .10
medium, bgs....lb. .09¾- .10¼
Japanese, bgs....lb. .08½- .09
Ginseng root, wild, Southern, cs., lb. 12.00 -13.00
Glauber's salt, anhyd. (see Soda Sulphate).
cryst., dom., bgs., bbls., c.l., works..100 lbs. .95 - 1.18
5 tons or over, works.... 100 lbs. 1.05 - 1.25
less than 5 tons, works, 100 lbs. 1.15 - 1.35
import, bgs....100 lbs. No prices
Glue, bone, calcimine type, 24 millipoise, 36 jelly-grams, bgs., c.l., dlvd..lb. .13½- —
l.c.l., dlvd....lb. .14 - —
36/58, bgs., c.l., dlvd....lb. .13 - —
l.c.l., dlvd....lb. .13½- —
58/82, bgs., c.l., dlvd....lb. .14½- —
l.c.l., dlvd....lb. .15 - —
82/106, bgs., c.l., dlvd....lb. .15 - —
l.c.l., dlvd....lb. .15½- —
hide, calcimine type, 56 millipoise, 135 jelly-grams, bgs., c.l., dlvd., East, Middlewest..lb. .15 - —
l.c.l., same basis....lb. .15½- —
60/164, bgs., c.l., same basis, lb. .16½- —
l.c.l., same basis....lb. .17 - —
67/122, bgs., c.l., same basis, lb. .17½- —
l.c.l., same basis....lb. .18 - —
75/222, bgs., c.l., same basis, lb. .18½- —
l.c.l., same basis....lb. .19½- —
88/251, bgs., c.l., same basis, lb. .19½- —
l.c.l., same basis....lb. .20½- —
92/283, bgs., c.l., same basis, lb. .20½- —
l.c.l., same basis....lb. .21½- —
102/315, bgs., c.l., same basis, lb. .21 - —
l.c.l., same basis....lb. .22 - —
113/347, bgs., c.l., same basis, lb. .22 - —
l.c.l., same basis....lb. .23 - —
125/379, bgs., c.l., same basis, lb. .23 - —
l.c.l., same basis....lb. .24 - —
Glue prices for barrel packing, ½c. lb. higher; grinding charge, 20-40 mesh, ½c. lb.; 60 mesh, 1c. lb.
Glycerin, CP., cns., l.c.l....lb. .14½- .15
dms., c.l., dlvd....lb. .12½- —
l.c.l., dlvd....lb. .13 - —
tanks, dlvd....lb. .12¾- —
dynamite, dms....lb. Nominal
high gravity, dms., c.l., dlvd.lb. .12 - —
l.c.l., dlvd....lb. .12½- —
tanks, dlvd....lb. .11¾- —
saponification, basis 88%, for industrial users, special colors, dms., returnable, c.l., dlvd.lb. .13 Nom.
l.c.l., same basis....lb. .14 Nom.
tanks ....lb. .12 Nom.
for refiners, dms., returnable, tanks, dlvd..lb. .08¾- .09
soaplye, basis 80%, dms., tanks, returnable, dlvd..lb. .07¾- .08¼
Glycine, medicinal, bbls., tins.lb. 1.70 - 2.00
Glycol boriborate, dms....lb. .22 - —
Phthalate, dms....lb. .38 - —
Stearate, dms....lb. .26 - —
Gold, U.S. purchase price....oz. 35.00 - —
Chloride, acid brown, bots..oz. 20.75 -21.00
yellow, bots....oz. 18.75 -19.00
Gold-soda chloride, photo., bots., oz. 13.00 - —
USP IX, bots....oz. 14.50 -14.75
Gold of pleasure, seed, bgs....lb. .12 - .12½
Goldenseal, root, bls....lb. 3.60 - 3.65
powd., bxs....lb. 3.90 - 3.95
Grains of paradise, bgs....lb. .45 - .47
Graphite, flake (cryst.), 90%, 325 mesh, 50% graphitic carbon., bgs., c.l., works..lb. .06 - —
bbls., c.l., works....lb. .06¼- —
l.c.l., works....lb. .06½- —
amorph., powd., 90%, 325 mesh, 65% graphitic carbon, bgs., c.l., works....lb. .02½- —
65% graphitic, carbon, bbls., c.l., works..lb. .02¾- —
l.c.l., works....lb. .03¼- —
80% graphitic, carbon, bgs., c.l., works..lb. .03½- —
bbls., c.l., works....lb. .03¾- —
l.c.l., works....lb. .04½- —
Grease, house, loose....lb. .05 - .05¼
White ....lb. .05½- .05¾
Yellow ....lb. .05¼- .05⅝
Wool (see Adeps lanae and Degras).
Green, chrome, CP, dark, light, medium, blue content up to 5%, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. river, including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis..lb. .21 - —
6-10%, bbls., same basis..lb. .22 - —
11-15%, bbls., same basis..lb. .23 - —
16-20%, bbls., same basis..lb. .23½- —
21-25%, bbls., same basis..lb. .24 - —
26-30%, bbls., same basis..lb. .24½- —
31-35%, bbls., same basis..lb. .25½- —
36-40%, bbls., same basis..lb. .27 - —
41-45%, bbls., same basis..lb. .28½- —
46-50%, bbls., same basis..lb. .30 - —
Green, chrome, prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, ½c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.
reduced, CP. color content up to 5%, same basis..lb. .06 - —
9-10%, bbls., same basis..lb. .06¾- —
11-13%, bbls., same basis..lb. .07¼- —
14-16%, bbls., same basis..lb. .07½- —
17-19%, bbls., same basis..lb. .07¾- —
20-21%, bbls., same basis..lb. .08 - —
22-23%, bbls., same basis..lb. .08¼- —
24-25%, bbls., same basis..lb. .08½- —
26-27%, bbls., same basis..lb. .08¾- —
28-29%, bbls., same basis..lb. .09¼- —
30-31%, bbls., same basis..lb. .10 - —
32-33%, bbls., same basis..lb. .11¼- —
34-35%, bbls., same basis..lb. .12¼- —
36-40%, bbls., same basis..lb. .14¼- —
41-45%, bbls., same basis..lb. .16¼- —
46-50%, bbls., same basis..lb. .16¾- —
51-55%, bbls., same basis..lb. .17¼- —
56-60%, bbls., same basis..lb. .17¾- —
61-65%, bbls., same basis..lb. .18¼- —
66-70%, bbls., same basis..lb. .19¼- —
71-75%, bbls., same basis..lb. .20¼- —
Oxide, dom., pure, bbls....lb. .25 - —
ceramic, light shades, bbls., c.l., works..lb. .25 - —
l.c.l., works....lb. .30 - —
standard grade, bbls., works..lb. .21 - .22
Tetrahydroxide, bbls....lb. .88 - —
Paris (see P).
Tungstated, brilliant, kgs....lb. 3.50 - —
emerald, kgs....lb. 2.35 - —
Verdigris (see V).

Dyes—Gum, Copal

Green dyes are listed under Dyes.
Grindelia robusta, bls....lb. .09 - .10
Guaiac resin, cs....lb. .30 - .35
strained, cs....lb. .80 - .85
Wood, bls....lb. .04 - .05
Guaiacol, liq., djns....lb. 1.65 - 1.91
Carbonate, nb., dms., 25 lbs..lb. 2.40 - 2.74
Guarana powd., cs....lb. 1.10 - 1.13
Gum, aloe (see A).
Ammoniac, tears, cs....lb. .85 - .90
Arabic, amber, sorts, cleaned, bgs..lb. .14½- .15
white, sorts, 1, bgs....lb. .33 - .35
2, bgs....lb. .32 - .34
powd., bbls....lb. .17½- .18
Asafetida (see A).
Asphaltum (see A).
Benzoin, Siam, cs....lb. 1.40 - 1.60
Sumatra, cs....lb. .23 - .24
Camphor (see C).
Chicle, prime, 33% moisture, bgs., ton lots..lb. .34 - .35
Copal, Congo, 1, water white, transparent, bgs., c.l., ex dock or ex whse., N. Y. or San Fran..lb. .49½- —
Gum, copal, dammar, elemi, kauri, mastic, sandarac, and yacca gums prices c.l. (30,000 lbs. min.) apply to assorted lots of gums as well as one grading; l.c.l. prices are ¼c. higher for 10 bgs. or over; ½c. higher for 1-9 bags.

Copal, Congo, cloudy, white, bgs., c.l., same basis..lb. .29½- —
3, selected pale straw bold, bgs., c.l., same basis..lb. .24½- —
4, pale bold straw, bgs., c.l., same basis..lb. .24 - —
5, pale straw bold, bgs., c.l., same basis..lb. .24 - —
6, pale amber bold, bgs., c.l., same basis..lb. .21½- —
7, pale straw bold, bgs., c.l., same basis..lb. 17 - —
8, light amber bold, bgs., c.l., same basis..lb. .17 - —
9, medium light amber bold, bgs., c.l., same basis..lb. .13⅞- —
10, rescraped hard amber bold, bgs., c.l., same basis, lb. .13⅝- —
11, hard dark amber bold, bgs., c.l., same basis..lb. .11⅝- —
12, selected bold sorts, bgs., c.l., same basis..lb. .10⅝- —
13, dark sorts bold, bgs., c.l., same basis..lb. .08½- —
14, selected, fully scraped, ivory, bgs., c.l., same basis..lb. .23¼- —
15, ordinary ivory sorts, bgs., c.l., same basis..lb. .10¼- —
16, inferior ivory sorts, bgs., c.l., same basis..lb. .09½- —
17, pale, fingers, bgs., c.l., same basis..lb. .17¾- —
18, pale straw nubs, bgs., c.l., same basis..lb. .17½- —
19, pale straw nubs, bgs., c.l., same basis..lb. .16⅞- —
20, hard dark amber nubs, bgs., c.l., same basis..lb. .11⅝- —
21, ordinary selected nubs, c.l., same basis..lb. .10⅝- —
22, small mixed nubs, bgs., c.l., same basis..lb. .09⅞- —
23, dark mixed nubs, bgs., c.l., same basis..lb. .10½- —
24, No. 1, ivory nubs, bgs., c.l., same basis..lb. .17¾- —
25, No. 2, natural ivory nubs, bgs., c.l., same basis..lb. .09½- —
26, pale bld chips, bgs., c.l., same basis..lb. .10 - —
27, pale small nubs, bgs., c.l., same basis..lb. .09½- —
28, pale dust, bgs., c.l., same basis..lb. .06¾- —
Batu, bold, scraped, bgs., c.l., same basis..lb. .08¾- —
unscraped, bgs., c.l., same basis..lb. .07 - —
chips, bgs., c.l., same basis..lb. .07 - —
dust, bgs., c.l., same basis, lb. .06⅜- —
nubs and chips, bgs., c.l., same basis..lb. .07 - —
black, bold, scraped, bgs., c.l., same basis..lb. .12¼- —
unscraped, bgs., c.l., same basis..lb. .08¼- —
nubs and chips, bgs., c.l., same basis..lb. .07¾- —
Hiroe, Macassar, pale bold, bgs., c.l., same basis..lb. .15⅝- —
chips, bgs., c.l., same basis, lb. .09 - —
dust, bgs., c.l., same basis..lb. .06¾- —
nubs, bgs., c.l., same basis..lb. .14⅜- —
Singapore, Rasak, bold, bgs., c.l., same basis..lb. .17½- —
chips, bgs.,c.l., same basis, lb. .09½- —
dust, bgs., c.l., same basis. lb. .06¾- —
nubs, bgs., c.l., same basis, lb. .13½- —
Manila, Boeas, amber and dark, bskts., c.l., same basis..lb. .14½- —
light, bskts., c.l., same basis..lb. .16⅝- —
Loba A, bskts., c.l., same basis..lb. .17⅝- —
B, bskts., c.l., same basis.lb. .16⅜- —
C, bskts., c.l., same basis, lb. .16½- —
CNE, bskts., c.l., same basis..lb. .12¾- —
D, bskts., c.l., same basis, lb. .15¼- —
DK, bskts.,c.l., same basis, lb. .11⅞- —
DK, dst., bskts., c.l., same basis..lb. .08¾- —
Sambas and white split chips, bskts., c.l., same basis..lb. .17½- —
Singapore, dust., bskts., c.l., same basis..lb. .08¾- —
spirit - soluble, CBB, bskts., basis..lb. .14⅞- —
DBB, bskts., c.l., same basis..lb. .14½- —
MA, bskts., c.l., same basis, lb. .13¾- —
MB, bskts., c.l., same basis, lb. .13¼- —
WS, bskts., c.l., same basis, lb. .14½- —
Philippine, Manila, amber sorts, bskts., c.l., same basis..lb. .14⅛- —
chips, pale, bskts., c.l., same basis..lb. .14½- —
pale, small, bskts., c.l., same basis..lb. .13⅛- —
extra pale sorts, bskts., c.l., same basis..lb. .14¾- —

Gums, Copal—Lime-Sulphur

Gums, copal, Philippine, Manila, nubs, bskts., c.l., same basis..lb. .15¼ - —
pale, scraped, bskts., c.l., same basis..lb. .13⅞ - —
seeds and dust., bskts., c.l., same basis..lb. .09¾ - —
Pontianak, bold, genuine, bgs., same basis..lb. .18½ - —
mixed, bgs., c.l., same basis, lb. .16⅝ - —
split, bgs., c.l., same basis, lb. .16½ - —
chips, bgs., c.l., same basis, lb. .10½ - —
nubs, bgs., c.l., same basis, lb. .13½ - —
Dammar, Batavia, A, cs., c.l., same basis as copal..lb. .22¾ - —
A/D, cs., c.l., same basis..lb. .14½ - —
A/E, cs., c.l., same basis..lb. .13⅞ - —
B, cs., c.l., same basis.....lb. .21¼ - —
C, cs., c.l., same basis.....lb. .15¼ - —
D, cs., c.l., same basis.....lb. .13¾ - —
dust, cs., c.l., same basis..lb. .08⅝ - —
E, cs., c.l., same basis.....lb. .10⅝ - —
F, cs., c.l., same basis.....lb. .08¾ - —
Singapore 1, cs., c.l., same basis..lb. .19⅝ - —
2, cs., c.l., same basis.....lb. .15¾ - —
3, cs., c.l., same basis.....lb. .09 - —
chips, cs., c.l., same basis.lb. .12½ - —
dust., cs., c.l., same basis, lb. .09 - —
seeds, cs., c.l., same basis, lb. .10½ - —
Elemi, cns., c.l., same basis as copal..lb. .11⅝ - —
Ester, dms., dlvd., New England, N. J., eastern N. Y. and Pa., Del., and Md., 75,000 lbs., contrs. or single shipt., 10,000 lbs., lb. .06¼ - .06¾
less than 10,000 lbs., same basis..lb. .06½ - .07
Western N. Y., and Pa., Ohio, Mich., Ind., Ill., Wis., Minn., Iowa, Mo., Ky., Va., W. Va., and N. C., 75,000 lbs., contrs. or straight c.l., lb. .06¾ - .07
l.c.l., same basis.....lb. .07 - .07½
dlvd., elsewhere, 75,000 lbs., contrs. or straight, c.l..lb. .07 - .07½
l.c.l., same basis.....lb. .07¼ - .07¾
Euphorbium, cs. .....lb. .50 - .55
Galbanum, cs. .....lb. 1.50 - 1.60
Gamboge, pipe, cs.....lb. .70 - .75
powd., bbls. .....lb. .75 - .80
Ghatti, soluble, bgs.....lb. .11 - .15
superior, bgs.....lb. .09 - .11
Guaiac (see Guaiac resin).
Karaya, bbls., bxs., dms....lb. .14 - .33
Kauri, brown, XXX, cs., c.l., lb. .60 - —
BX, cs., c.l., same basis..lb. .38 - —
B1, cs., c.l., same basis..lb. .28 - —
B2, cs., c.l., same basis..lb. .24 - —
B3, cs., c.l., same basis..lb. .18½ - —
80% chips, c.s., c.l., same basis..lb. .12½ - —
pale, XXX, cs., same basis.lb. .61 - —
1, cs., c.l., same basis...lb. .41 - —
2, cs., c.l., same basis...lb. .24 - —
3, cs., c.l., same basis...lb. .17¾ - —
Kino, tins.....lb. 4.00 - 4.50
Locust bean, powd., bbls....lb. Nominal
Mastic, cs., c.l., same basis as copal..lb. .85 - .90
Myrrh, USP, cs.....lb. .60 - .65
Olibanum, siftings, cs.....lb. .08 - .12
Tears, cs.....lb. .15 - .25
Opium (see O).
Rosin (see R).
Sandarac, cks., c.l., same basis as copal..lb. .37 Nom.
Scammony, cs.....lb. 1.10 - 1.15
Talha, bgs.....lb. .14 Nom.
Thus, bbls.....280 lbs.15.00 -15.25
Tragacanth, Aleppo, 1, cs...lb. 2.65 - 2.70
2, cs.....lb. 2.55 - 2.60
3, cs.....lb. 2.45 - 2.50
flake, bgs.....lb. No prices
Yacca, bgs.....lb. .03½ - .04

Gypsum, Keene's cement, paper bgs., c.l., f.o.b. Acme, Tex., frt. equald..ton.22.45 - —
Medicine Lodge, Kans., frt. equaled..ton.17.00 - —
New Brighton, N. Y., frt. equald..ton.27.65 - —
Southard, Okla., frt. equal. ton.17.00 - —
Sweetwater, Tex., frt. equald..ton.21.45 - —
Acme, Tex., frt. equald.ton.12.50 - —
Blue Rapids, Kans., frt. equald..ton.12.50 - —
Medicine Lodge, Kans., frt. equald..ton.12.50 - —
New Brighton, N. Y., frt. equald..ton.14.00 - —
f.o.b. Southard, Okla., frt. equald..ton.12.50 - —
Sweetwater, Texas, frt. equald..ton.12.50 - —
stucco, paper bags., c.l., f.o.b. Acme Tex.; Blue Rapids, Kans.; Fort Dodge, Ia.; Grand Rapids, Mich.; Gypsum, O.; New Brighton, N. Y.; Plasterco, Va.; Southard, Okla.; Sweetwater, Tex., frt. equald.....ton. 8.00 - —
terra alba, dom., paper bgs., c.l., f.o.b. New Brighton, N. Y.; Southard, Okla., frt. equald..ton.12.00 - —
import, bgs., ex dock.....ton.28.00 Nom.

H

Hawthorn berries, bgs.....lb. .30 - .32
Hellotropin, cryst., cns.....lb. 3.00 - 3.20
Hellebore root, white, powd., bbls. lb. .14 - .15
Helonias root, bls.....lb. .55 - .60
Hematine crystals, bbls.....lb. .20 - .30
Hemlock bark extract, 25%, tan, c.l., bbls., works..lb. .03¾ - —
l.c.l., bbls., works.....lb. .03½ - —
tanks, works.....lb. .03 - —
Hempseed, Manchur, bgs.....lb. .06½ - .07½
Henbane, leaves, bls.....lb. .55 - .60
Henna leaves, bls.....lb. .16 - .18
powd., bbls., bxs.....lb. .18 - .20
Heptane, mixed, 77-115°C., dms., c.l., Group 3..gal. .11 - —
l.c.l., Group 3.....gal. .16 - —
tanks, Group 3.....gal. .08½ - —
Normal, 86-100°, dms., c.l., Group 3..gal. .11½ - —
l.c.l., Group 3.....gal. .17 - —
tanks, Group 3.....gal. .09½ - —
Hexalin, dms.....lb. .80 - —
Hexane, normal, 60-70°C., dms., c.l., Group 3..gal. .12½ - —
l.c.l., Group 3.....gal. .17 - —
tanks, Group 3.....gal. .10½ - —
laboratory grade, dms., c.l., Group 3..gal. .14 - —
l.c.l., Group 3.....gal. .25 - —
Hexamethylenetetramine, tech., dms., 1,500 lbs. or more, shipments, f.o.b. Perth Amboy or N. Y. C..lb. .32 - —
150 to 1,350 lbs., shipments, same basis..lb. .33 - —
USP, dms, 500 lbs. or more, shipments, same basis..lb. .38 - —
fib. ctns., same basis.....lb. .40 - —
Homatropine hydrobromide, bots., 25 ozs..oz.15.00 Nom.
Hoofmeal, 17-18% ammon., bulk, f.o.b. Chicago..unit-ton. 3.00 - 3.15
Hops, N. F., bls.....lb. .23 - .24
Horehound, bls.....lb. .12 - .13
Hydrangea root, bls.....lb. .08 - .09
Hydrastine, bots., 4 ozs.....oz.17.25 - —
cns., 16 ozs.....oz.17.00 - —
Hydrochloride, bots., 4 ozs..oz.17.25 - —
cns., 16 ozs.....oz.17.00 - —
Sulphate, bots., 4 ozs.....oz.19.00 - —
cns., 16 ozs.....oz.18.75 - —
Hydrastinine, 15 gr., bots.....bot. 3.00 - —
Hydrastis (see Golden seal).
Hydrofuramide, dms., 100 lbs. or more, works..lb. .30 - —
fib. ctns., works.....lb. .40 - —
Hydrogen peroxide, USP, bbls.,lb. 100 vols., cbys., E. of Miss. River..lb. .03¾ - .04 .20 - —
Hydroquinone, dealers, bbls., dms..lb. .90 - .94
Hydroxycitronellal, cns.....lb. 2.00 - 2.50
Hyoscine hydrobromide, bots..oz.26.00 -26.25
Hydrochloride, 5 gr., bots..bot. .75 - —
Hyoscyamine, 5 gr., bots.....bot. .60 - —
Hydrobromide, 5 gr., bots..bot. .60 - —
Sulphate, 5 gr., bots.....bot. .60 - —
Hypernic, ext. liquid, 51°, bbls., lb. .14 - —

I

Iceland moss, bls.....lb. .18 - .20
Ichthyol, bots.....lb. 4.00 - —
Indian red (see Red, Indian).
Indigo, nat., Madras, cs.....lb. 1.63 - 1.67
synth., liq., bbls.....lb. .16½ - .19
powd., bbls.....lb. .74½ - .85
Indol, CP, bots.....lb.32.00 -34.00
Insect flowers (see Pyrethrum).
Iodine, crude, jars, 25 lbs.....lb. 1.30 - —
kgs., 150 lbs., less 5%.....lb. 1.21 - —
resubl., bots., 5 lbs.....lb. 2.10 - —
jars, 50 lbs.....lb. 2.00 - —
tincture, USP, bbls., 47 gals.gal. 2.00 - —
cbys., 5 gals.....gal. 2.05 - 2.10
mild, bbls., 47 gals.....gal. 1.25 - —
cbys., 5 gals.....gal. 1.30 - 1.35
Iodoform, dms., 100 lbs.....lb. 3.95 - 4.10
jars .....lb. 4.20 - —
Ionone, alpha, bots.....lb. 2.50 - 2.55
alpha, extra, bots.....lb. 4.00 - 4.05
alpha beta, bots.....lb. 2.25 - 2.30
beta, bots.....lb. 4.10 - 4.15
Ipecac root, bgs.....lb. 1.15 - 1.20
powd., bxs.....lb. 1.25 - 1.30
Irish moss, ordinary, bls.....lb. .15 - .16
powd., 80-90 mesh, bbls..lb. .30 - .32
prime, bleached, bls.....lb. .28 - .30
Iron acetate, N. F., IV, 100-lb. cbys..lb. .15 - —
djns., 50 lbs.....lb. .16 - —
liquor, bbls., c.l., dlvd.....lb. .03 - —
l.c.l., dlvd.....lb. .04 - —
Chloride (ferric), tech., anhydr., 390-lb. dms..100 lbs. 4.65 - 6.25
150-lb. dms.....100 lbs. 5.00 - 6.00
cryst., bbls., works, frt. alld. or equald..lb. .05 - .06
kegs, works, frt. alld. or equald..lb. .07½ - .08
liquor, cbys., works, frt. alld. or equald..lb. .05 - .06
USP X, cryst., bbls.....lb. .07½ - —
kegs .....lb. .08½ - —
USP solut., cbys., works, frt. alld. or equald..lb. .06½ - .07
djns. .....lb. .07½ - —
USP VIII, pearls.....lb. .72 - .75
powd., cns.....lb. .84 - .87
scales, cns.....lb. .77 - .80
Glycerophosphate, bbls., kgs., 1,000-lb. lots..lb. 3.15 - —
smaller lots.....lb. 3.25 - —
cns., 25 lbs.....lb. 3.37 - —
Hypophosphite, cns.....lb. 1.55 - 1.60
Iron, iodide, bots.....lb. 3.18 - 3.32
syrup, djns.....lb. .39 - —
bots. .....lb. .53 - —
Nitrate, coml., kgs.....lb. .02¾ - .03
Oxalate, powd., kgs.....lb. .47 - —
cns. .....lb. .52 - —
scales, cns.....lb. .83 - .85
Oxide (see Black, Red, etc.),
Phosphate, ferric, pearls, cns., 50 lbs..lb. .54 - —
25 lbs.....lb. .57 - —
scale, cns., 50 lbs.....lb. .59 - —
25 lbs.....lb. .62 - —
ferrous, 200-lb. bbls.....lb. .35 - —
25-lb. bxs.....lb. .40 - —
100-lb. kgs.....lb. .37 - —
Pyrophosphate, pearls, cns...lb. .59 - .62
scales, cns.....lb. .64 - .67
Reduced, 90%, cs.....lb. .60 - .65
Sulphate, tech. (see Copperas and ferric sulphate).
Sulphate, USP, cryst., 275-lb. bbls..lb. .04¼ - —
dms., 100 lbs.....lb. .06½ - —
Iron-ammonia citrate, brown, gran., cns..lb. .35 - .38
pearls, cns.....lb. .35 - .38
scales, cns.....lb. .47 - .50
green, gran., cns.....lb. .35 - .38
pearls, cns.....lb. .35 - .38
scales, cns.....lb. .47 - .50
Iron-ammonia oxalate, bxs....lb. .30 - —
fib. dms.....lb. .23½ - —
kgs. .....lb. .25½ - —
Iron-potash oxalate, bbls.....lb. .42 - —
kgs. .....lb. .44 - —
jars .....lb. .48 - —
Iron-soda oxalate, bxs.....lb. .30 - —
fib. dms.....lb. .23½ - —
kgs. .....lb. .25½ - —
Isobutylacetate, 55-gal. dms., works..lb. .069 - —
tanks, works.....lb. .059 - —
Isopentane, dms., works.....lb. .48 - —
small lots, works.....lb. .50 - —
Isophorone, dms., works.....lb. .25 - —
Isopropanol (see Alcohol, isopropyl).
Isopropyl acetate, dms., 5 gals., E. of Rockies, frt. alld..lb. .10 - —
55 gals., c.l., E. of Rockies, frt. alld..lb. .065 - —
55 gals., l.c.l., E. of Rockies, frt. alld..lb. .07 - —
tanks, E. of Rockies, frt. alld..lb. .055 - —
Alcohol (see Alcohol).
Ether, dms., 5 gal., frt. alld., gal. .55 - —
55 gal., c.l., E. of Miss., frt. alld..gal. .35 - —
55 gal., c.l., W. of Miss., frt. alld..gal. .39 - —
Isopropyl ether, dms., 55 gals., l.c.l., E. of Miss., frt. alld., gal. .44 - —
tanks, E. of Miss., frt. alld., gal. .25 - —
W. of Miss., frt alld., gal. .29 - —

J

Jaborandi leaves, bls.....lb. .11 - .13
Jalap root, NF, bls.....lb. .24 - .26
powd., bbls, bxs.....lb. .28 - .30
resin, lump, cns.....lb. 3.70 - —
powd., bxs.....lb. 3.75 - —
Juniper berries, bgs.....lb. .09 - .09½

K

Kamala, tins.....lb. .42 - .43
Kaolin (see China clay).
Kava kava root, bls.....lb. .14 - .16
Kerosene, at refinery:—
Bayonne, 41-43 w.w., tanks, gal. .0560- —
Gulf ports, p.w., bulk.....gal. .03⅜- .03⅝
w.w., bulk..gal. .03⅞- —
Louisiana - Arkansas, 41-43 w.w., bulk..gal. .04 - .04⅜
Oklahoma-Texas, 41-43 w.w., tanks..gal. .04 - .04½
42-44 w.w., tanks.....gal. .04¼- .04⅝
Pennsylvania, 45 w.w., tanks, gal. .04⅝- .04⅞
46 w.w., tanks.....gal. .04¾- .05
47 w.w., tanks.....gal. .04⅞- .05⅛
Kerosene, tankwagon:—
Atlanta .....gal. .12 - —
Boston .....gal. .08¼- —
Chicago .....gal. .10 - —
Cincinnati .....gal. .13 - —
Denver .....gal. .11½- —
Louisville .....gal. .10 - —
Minneapolis .....gal. .104 - —
New Orleans.....gal. .11 - —
New York.....gal. .09 - —
San Francisco.....gal. .11½- —
Kerosene distillate (see Oil, furnace).
Kieserite, calc., 96-98% $MgSO_4$, bgs., c.l., ex vessel Atlantic, Gulf ports, duty pd..ton. No Prices
Kola nuts, bgs.....lb. .12 - .13

L

Lady slipper root, bls.....lb. .36 - .37
Lanolin (see Adeps lanae).
Lard, city, tubs.....100 lbs. 6.25 - 6.50
Middlewestern, trcs....100 lbs. 6.55 - 6.65
Neutral, trcs.....100 lbs. 7.00 - 7.25
Western, choice, trcs..100 lbs. 6.60 - 6.70
Compound, trcs.....100 lbs. 9.50 - 9.75
Larkspur seed, bgs.....lb. .90 - 1.00
Laurel berries, bls.....lb. .25 - .26
Leaves, Greek, bls.....lb. .05½- .06
Lavender flowers, ordinary, bls.lb. .40 - .45
medium, bls.....lb. .50 - .55
select, bls.....lb. .60 - .65
Lead acetate, white, broken, bbls. lb. .11 - —
cryst., bbls.....lb. .11 - —
gran., bbls.....lb. .11¾ - —
powd., bbls.....lb. .11¾ - —
Arsenate, bgs., c.l., dealers..lb. .10 - .11
l.c.l., bgs., dealers.....lb. .10½- .11½
Lead arsenate prices are works or whse. basis, frt. alld. to dest. in lots of 96 lbs. or over; no frt. or truck allowance for works or whse. pick ups.
Blue, basic sulphate, bbls., c.l., dlvd. E..lb. .06¼ - —
dlvd., Ariz., Cal., Col., Idaho, Mont., Nev., N. M., Ore., Utah, Wash., Wyo. .....lb. .06¼ - —
l.c.l., dlvd. E.....lb. .06½ - —
l.c.l., dlvd. Ariz., Cal., Col., Idaho, Mont., Nev., N. M., Ore., Utah, Wash., Wyo.....lb. .07 - —
Carbonate (see Lead, white).
Chloride, pure, bots., 5 lbs...lb. .62 - —
fib. dms., 25 lbs.....lb. .40 - —
Iodide, NF V, powd., 5 lb. bots..lb. 2.66 - —
jars .....lb. 2.55 - —
Linoleate, pale, precip., dms.lb. .19 - —
Metal (see daily quotations in market report).
Metallic, paste, 200-lb. cont., f.o.b. works..lb. .19 - —
5-lb. cont., f.o.b. works....lb. .22 - —
Nitrate, bbls.....lb. .11 - .14
Oleate, bbls.....lb. .18½ - .20
Peroxide, cns., works.....lb. .46 - .47
Red, dry, 95% or less Pb_3O_4, bbls., c.l. (20 tons), dlvd., Ala., Ariz., Ark., Colo., Fla., Ga., Idaho, La., Miss., Mont., Nev., N. Mex., Okla., Tex., Utah, Wyo., and E. of Cascade Mts. in Ore. and Wash...lb. .08¼ - —
other points.....lb. .08 - —
l.c.l., 5 tons, dlvd., Ala., Ark., Cal., Fla., Ga., La., Miss., Okla., Tex., and W. of Cascade Mts. in Ore. and Wash. .....lb. .08¾ - —
Ariz., Idaho, Nev., Utah and E. of Cascade Mts. in Ore. and Wash. .....lb. .09¼ - —
Colo., Mont., N. Mex., Wyo..lb. .09 - —
other points.....lb. .08½ - —
smaller lots, Ala., etc..lb. .09¼ - —
Ariz., etc.....lb. .09¾ - —
Colo., etc.....lb. .09½ - —
other points.....lb. .09 - —
97%, Pb_3O_4, bbls., c.l. (20 tons), dlvd., Ala., etc., lb. .08¼ - —
other points.....lb. .08¼ - —
l.c.l., 5 tons, dlvd., Ala., etc..lb. .09 - —
Ariz., etc.....lb. .09¼ - —
Colo., etc.....lb. .09½ - —
other points.....lb. .08¾ - —
smaller lots, dlvd., Ala., etc..lb. .09¼ - —
Ariz., etc.....lb. .10 - —
Colo., etc.....lb. .09¾ - —
other points.....lb. .09¼ - —
98%, Pb_3O_4, bbls., c.l. (20 tons), dlvd., Ala., etc., lb. .08¾ - —
other points.....lb. .08¼ - —
l.c.l., 5 tons, dlvd., Ala., etc..lb. .09¼ - —
Ariz., etc.....lb. .09¾ - —
Colo., etc.....lb. .09¼ - —
other points.....lb. .09 - —
Lead, red, dry, 98%, Pb_3O_4, l.c.l., smaller lots, dlvd., Ala., etc..lb. .09¾ - —
Ariz., etc.....lb. .10¼ - —
Colo., etc.....lb. .10 - —
other points.....lb. .09¼ - —
in oil, 95% min., 100-lb. kgs., lb. .12¼ - —
Resinate, fused 15%, bbls....lb. .09¼ - —
pale, bbls.....lb. .11¼ - —
precip., bbls.....lb. .16¼ - —
Stearate, bbls.....lb. .26 - —
Sulphate (see Lead, white, basic sulphate).
Titanate, bbls., c.l. (20 tons), works, frt. alld..lb. .10 - —
l.c.l., 5 tons, one delvy., E. frt. alld..lb. .10¼ - —
Pac. Cst., ex whse....lb. .10¼ - —
smaller lots, E. frt. alld., lb. .10½ - —
Pac. Cst., ex whse....lb. .10½ - —
White, dry, basic carbonate, bbls., c.l., dlvd. Ariz., Calif., Colo., Idaho, Mont., Nev., N. Mex., Ore., Utah, Wash. and Wyo..lb. .07¼ - —
other points.....lb. .07 - —
l.c.l., dlvd., Ariz., etc.lb. .07½ - —
other points.....lb. .07¾ - —
basic sulphate, bbls., c.l., dlvd., Ariz., etc..lb. .06½ - —
other points.....lb. .06¼ - —
l.c.l., dlvd., Ariz., etc. lb. .06¾ - —
other points.....lb. .06¼ - —
in oil, 100-lb. kgs., consumers, lb. .12¾ - —
dealers .....lb. .10¾ - —
painters .....lb. .11¾ - —
Consumers' price and painters' price are ½c. lower on orders of 500 lbs. or more.
Lecithin, 100%, cns., f.o.b., N. Y. or Chi..lb. 2.50 - —
edible, grade 1, dms., c.l., same basis..lb. .45 - —
l.c.l., same basis.....lb. .47½ - .65
grades 2 or 3, dms., c.l., same basis..lb. .47½ - —
l.c.l., same basis.....lb. .50 - .67½
grade 4, dms., c.l., same basis..lb. .50 - —
l.c.l., same basis.....lb. .52½ - .70
purified, cs., dms., c.l., same basis..lb. .65 - —
l.c.l., same basis.....lb. .67½ - .85
tech., grade 1, dms., c.l., same basis..lb. .35 - —
l.c.l., same basis.....lb. .37½ - .55
grades 2 or 3, dms., c.l., same basis..lb. .37½ - —
l.c.l., same basis.....lb. .40 - .57½
grade 4, dms., c.l., same basis..lb. .40 - —
l.c.l., same basis.....lb. .42½ - .60
Lecithin prices quoted above are for goods packed in 25, 50 or 100-lb. dms. When goods are packed in 500-lb. dms., prices are 1c. per lb. less.
Lemon peel, bls.....lb. .13 - .15
Licorice extract, mass., cs.....lb. .18 - .19
powd., bbls. .....lb. .24 - .25
root, cuttings, bls.....lb. .07 - .08
powd., bbls., bxs.....lb. .11 - .12
select, bndls., cs.....lb. .25 - .27
Lime, chemical (quicklime), lump or pebble, bulk, f.o.b. Bellefonte, Pa.....ton. 7.00 - —
Berkley, W. Va.....ton. 7.00 - —
Carey, Ohio.....ton. 7.00 - —
Cedar Hollow, Pa....ton. 8.50 - —
Crab Orchard, Tenn.ton. 6.25 - —
Eagle Mountain, Va.ton. 7.00 - —
Farnams, Mass.....ton. 8.00 - —
Gibsonburg, Ohio....ton. 7.00 - —
Hannibal, Mo.....ton. 6.50 - —
Keystone, Ala.....ton. 7.00 - —
Knoxville, Tenn.....ton. 6.25 - —
Limedale, Ark.....ton. 7.00 - —
Longview, Ala.....ton. 6.25 - —
Manistique, Mich....ton. 8.00 - —
Marblehead, Ohio....ton. 7.50 - —
Martinsburg, W. Va.ton. 7.00 - —
Menominee, Mich....ton. 8.00 - —
Mitchell, Ind.....ton. 6.50 - —
Newala, Ala.....ton. 6.25 - —
Rincon, Cal.....ton.13.00 - —
Ripplemead, Va.....ton. 7.00 - —
Riverton, Va.....ton. 7.00 - —
San Francisco, Cal..ton.13.00 - —
Scioto, Ohio.....ton. 6.50 - —
Springfield, Mo.....ton. 7.00 - —
Woodville, Ohio.....ton. 7.00 - —
York, Pa.....ton. 7.00 - —
Lime, hydrated, paper bags, f.o.b. Bellefonte, Pa..ton. 8.50 - —
Berkley, W. Va.....ton. 8.50 - —
Buffalo, N. Y.....ton.10.00 - —
Carey, Ohio.....ton. 8.50 - —
Cedar Hollow, Pa....ton. 8.50 - —
Crab Orchard, Tenn.ton. 9.00 - —
Eagle Mountain, Va.ton. 9.00 - —
Farnams, Mass.....ton. 8.50 - —
Gibsonburg, Ohio....ton. 8.50 - —
Hannibal, Mo.....ton. 8.50 - —
Keystone, Ala.....ton. 9.00 - —
Knoxville, Tenn.....ton. 9.00 - —
Le Roy, Minn.....ton.10.00 - —
Lime Crest, N. J....ton. 8.50 - —
Limedale, Ark.....ton. 9.00 - —
Longview, Ala.....ton. 9.00 - —
Louisville, Ky.....ton.14.50 - —
Manistique, Mich....ton. 9.00 - —
Marblehead, Ohio....ton. 9.50 - —
Martinsburg, W. Va.ton. 8.50 - —
Mitchell, Ind.....ton. 9.00 - —
Newala, Ala.....ton. 9.00 - —
Potoskey, Mich.....ton. 9.00 - —
Port Island, Mich....ton. 9.00 - —
Rapid City, S. D....ton.12.00 - —
Ripplemead, Va.....ton. 9.00 - —
San Francisco, Cal..ton.16.00 - —
Springfield, Mo.....ton. 9.00 - —
Woodville, Ohio.....ton. 8.50 - —
York, Pa.....ton. 8.50 - —
spray, paper bags, f.o.b. Bellefonte, Pa..ton. 9.00 - —
Carey, Ohio.....ton.11.00 - —
Farnams, Mass.....ton. 9.50 - —
Gibsonburg, Ohio....ton.11.00 - —
Lime Crest, N. J....ton. 8.50 - —
Marblehead, Ohio....ton.11.00 - —
Scioto, Ohio.....ton.10.00 - —
Woodville, Ohio.....ton.11.00 - —
York, Pa.....ton. 9.00 - —
Lime salts (see Calcium).
Lime-sulphur, dry, dealers, bgs., c.l., E. of and incl. N. Dak., S. Dak., Neb., Kan., Okla., Tex..lb. .07½ - .08½
dms., same basis.....lb. .10½ - —
400 lbs., or more, bgs., same basis..lb. .07¾ - .08¾
dms., same basis.....lb. .11 - —
less than 400 lbs., same basis, lb. .08½ - .09½
dms., same basis.....lb. .12 - —
solution, Zone 1, dms., consumers, gal. .08½ - —
Zone 2, tanks, dealers, wks., gal. .11 - .15
30-50 dms.....gal. .11½ - —
Zone 3, tanks, dealers, dlvd., gal. .14 - .18
30-50 dms.....gal. .14 - —
Zone 4, tanks, dealers, wks., gal. .08 - —
dms., wks., except Cal..gal. .12 - —

Lime-sulphur, solution, Zone 5, tanks, dealers, dlvd.	gal.	.10½	—
dms.	gal.	.12	—
Zone 6, tanks, dealers	gal.	.08½	—
30-50 dms	gal.	.11	.15

Prices for lime sulphur solution are f.o.b. warehouse points, freight allowed. Zone 1 includes Ga., S. C., Ala., N. C., except the counties of Ashe, Surry, Stokes, Rockingham and Alleghany; Tenn., east of Tenn. River. Zone 2: New England States, Zone 3, Ark., Ohio, Ind., Ill., Ia., Ky., Mich., Wis., Minn., Mo., and Tenn. west of Tenn. River; Penn, eastern tier, and W. Va. western tier. Zone 4: West of Rocky Mountains, except southern California, which makes up Zone 5. Zone 6: N.Y. east of Herkimer, N. J., Md., Del., Va., Pa.—all counties lying east of the western boundary of Bedford, Blair, Center, Clinton and Potter, W. Va.—counties of Mineral, Hampshire, Morgan, Berkeley, Jefferson, and Hardy, N. C.—counties of Ashe, Alleghany, Surry, Stokes and Rockingham.

Linalool, cns.	lb.	2.10	3.30
Linalyl acetate, cns.	lb.	2.50	2.75
Linden flowers, with leaves, bls.	lb.	.32	.35
without leaves, bls.	lb.	.30	.35
Linseed cake, bags, export	ton.	28.50	-29.00
meal, 34%, bgs.	ton.	37.00	—
Litharge, com'l, powd., bbls., 20-tons dlvd., Ala., Ariz., Ark., Colo., Fla., Ga., Idaho, La., Miss., Mont., Nev., N. Mex., Okla., Tex., Utah, Wyo., and E. of Cascade Mts. in Ore. and Wash.	lb.	.07¼	—
dlvd., other points	lb.	.07	—
5 tons, dlvd., Ala., Ark., Cal., Fla., Ga., La., Miss., Okla., Tex. and W. of Cascade Mts. in Ore., and Wash.	lb.	.07¾	—
Ariz., Idaho, Nev., Utah and E. of Cascade Mts. in Ore. and Wash.	lb.	.08¼	—
Colo., Mont., N. Mex., Wyo.	lb.	.08	—
other points	lb.	.07½	—
smaller lots, dlvd., Ala., etc.	lb.	.08¼	—
Ariz., etc.	lb.	.08¾	—
Colo., etc.	lb.	.08½	—
Other points	lb.	.08	—
Lithium bromide, bbls., 100 lbs., works, frt. equal'd.	lb.	1.90	—
50 lbs., works	lb.	1.93	—
25 lbs., works	lb.	1.95	—
Carbonate, 250-lb., bbls.	lb.	1.25	—
100-lb. kgs.	lb.	1.30	—
Chloride, 25-lb. jars	lb.	1.65	1.70
Citrate, 250-lb. bbls.	lb.	1.40	—
25-lb. dms.	lb.	1.45	—
100-lb. kgs.	lb.	1.40	—
Fluoride, bbls.	lb.	2.10	2.25
Iodide, 5-lb. bots.	lb.	4.85	—
25-lb. jars	lb.	4.70	—
Lithopone, titanated (high strength), bgs., c.l. (20 tons)	lb.	.05	—
smaller lots	lb.	.05¼	—
bbls., c.l. (20 tons)	lb.	.05¼	—
smaller lots	lb.	.05½	—
ordinary, bgs., c.l. (20 tons)	lb.	.0360	—
smaller lots	lb.	.0385	—
bbls., c.l. (20 tons)	lb.	.0385	—
smaller lots	lb.	.04¼	—

Lithopone in car lots is delivered East or the Pacific Coast and in less than car-lot quantities delivered East or ex warehouse Pacific Coast.

Liverwort leaves, bls.	lb.	.40	.45
Lobelia, herb, bls.	lb.	.12	.13
Seed, bgs.	lb.	.35	.36
Logwood extract, cryst., bbls.	lb.	.20	.24
liquid, 51°, bbls.	lb.	.10½	.12½
solid, bxs.	lb.	.16½	.20½
Lovage root, dom., bls.	lb.	.35	.36
import, bls.	lb.	.45	.60
Lupulin, N. E., tins	lb.	1.65	1.70
Lycopodium, cs.	lb.	3.75	4.00

M

Mace, Banda, cs.	lb.	.58	.60
Batavia, cs.	lb.	.32	.34
Siauw, cs.	lb.	.48	.49
Madder, Dutch, bbls.	lb.	.22	.25
Magnesia, arsenate, dms.	lb.	.18	.20
Calcined, tech., USP, bbls., works	lb.	.26	—
Carbonate, tech., Zone 1, bgs., c.l.	lb.	.06¼	—
l.c.l.	lb.	.07	—
2, bbls., c.l.	lb.	.07¼	—
l.c.l.	lb.	.08	—
kgs., c.l.	lb.	.08¾	—
l.c.l.	lb.	.09½	—
USP, zone 1, bbls., c.l.	lb.	.06¼	—
l.c.l.	lb.	.09	—
kgs., c.l.	lb.	.09¾	—
l.c.l.	lb.	.10½	—

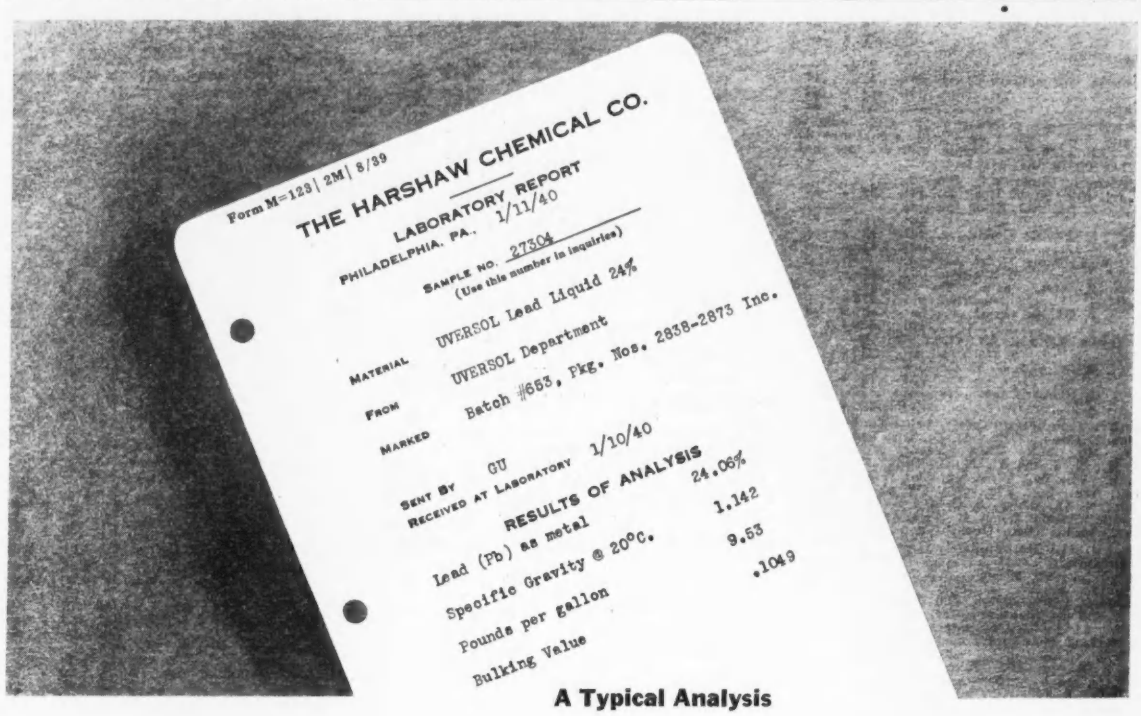
Magnesia:—Zone 1—Mass., Conn., R. I., N. Y., N. J., Pa., Del. and Md. C.l., shipments, full frt alld. up to, but not exceeding 25c. per 100 lbs., actually paid by customers. On l.c.l. shipm'ts, frt. alld., including dlvd. storedoor. Magnesia prices are f.o.b., Plymouth Meeting House. Zone 2, balance of U. S.; prices f.o.b., Plymouth Meeting, Ambler, Phillipsburg, Valley Forge, and New York.

Chloride, anhy., dom., bbls., blvd.	lb.	.13	—
flake, dom., bbls., wks., c.l.	ton.	32.00	—
l.c.l., bbls., wks.	ton.	39.00	42.00
Hypophosphite, cns 100 lbs.	lb.	1.45	—
25 lbs.	lb.	1.50	—
Oxide (see Calcined).			
Palmitate, bbls.	lb.	.33	Nom.
Peroxide, 15%, dms., works	lb.	1.00	1.35
Silicate (see Talc).			
Silicofluoride, bbls.	lb.	.11	.11½
Stearate, bbls., ctns., c.l.	lb.	.24	—
1 ton	lb.	.25	—
1,000-2,000 lbs.	lb.	.26	—
smaller lots	lb.	.27	—
Sulphate (see Epsom salt).			
Magnesite, cal., dom., bgs.	ton.	62.00	66.00
Import, bgs., duty paid	ton.	62.00	66.00
dead-burned, dom., bulk, c.l., f.o.b. Chewelah, Wash.	ton.	25.00	—
Magnesium hydroxide, medicinal, bbls., 200 lb.	lb.	.25	—
dms., 25 lbs.	lb.	.30	—
kgs., 100 lbs.	lb.	.26	—
Trisilicate, cs., 500-lb. lots	lb.	.58	—
100-lb. lots	lb.	.65	—
cns.	lb.	.75	.80
Malva flowers, black, bls.	lb.	.45	.50
blue, bls.	lb.	.45	.50
Leaves, bls.	lb.	.19	.20
Manaca root, bls.	lb.	.23	.24
Mandrake root, bls.	lb.	.12	.13
Manganese acetate, dms.	lb.	.26½	—
Arsenate, bgs.	lb.	.12	.12½
Borate, tech., bbls.	lb.	.15	.16
Carbonate, bbls.	lb.	.19	—
Chloride, bbls.	lb.	.06½ Nom.	
Dioxide, African, battery, 84-87%, bbls, 28-40 tons, works	ton.	69.00	—
5-15 tons, works	ton.	72.00	—
½ 4 tons, works	ton.	77.00	—
Caucasian, 85-90%, bbls., c.l., works	ton.	66.50	—
l.c.l., 5 tons, works	ton.	69.50	—
smaller lots, works	ton.	74.50	—
burlap bgs., c.l., works	ton.	64.25	—
l.c.l., 5 tons, works	ton.	67.25	—
smaller lots, works	ton.	72.25	—
paper bgs., c.l., works	ton.	62.50	—
l.c.l., 5 tons, works	ton.	65.50	—
Glycerophosphate, bbls., kgs., 1,000-lb. lots	lb.	2.80	—
smaller lots	lb.	3.00	—
cns., 25 lbs.	lb.	3.12	—
Hydrate, bbls., dlvd.	lb.	.82	—
Iodide, bots., 5 lbs.	lb.	5.55	—
jars, 25 lbs.	lb.	5.70	—
Linoleate, liquid, 4%, dms.	lb.	.18	.19½
solid, precip., 8.2%, bbls.	lb.	.19	—
Ore, Cuban, 51-52%, basis Atl. ports, unit-ton		.50	—
Resinate, fused, 3½%, bbls.	lb.	.08¼	.08½
precip., dms.	lb.	.12	—
Sulphate, anhyd., ton lots, works	lb.	.08	.08½
single bbls., works	lb.	.08¼	.08¾
fertilizer, 65%, $MnSO_4$, bgs., c.l., dlvd., South.	ton.	52.00	—
l.c.l., bgs.	ton.	59.00	73.25
Mangrove bark, bgs., shipt.	ton.	35.00	—
Manna flake, large cs.	lb.	.58	.60
small, cs.	lb.	.40	.42
Mannitol, com'l grade, 99% pure, ton lots, works	lb.	.42	—
250 lbs., bbls., works	lb.	.50	—
reagent grade, 25-lb. tins, 100-lb. lots, works	lb.	.95	—
50-lb. lots, works	lb.	1.00	—
Marble flour, bgs.	ton.	12.00	14.00
Marjoram, French, bls.	lb.	.28	.29
Tunisan, bls.	lb.	.27	Nom.
Chilean, bls.	lb.	.21	.22
Matico leaves, bls.	lb.	.30	.32
Menthol, USP, natural, cs.	lb.	3.75	3.85
synthetic, tech., cs.	lb.	3.50	—
USP, cs.	lb.	3.25	—
liquid, dms., 50 lbs.	lb.	1.50	—
Menthyl salicylate, tins, 100-lb. lots	lb.	3.00	—
25-lb. lots	lb.	3.10	—
Mercurial ointment, 30%, pails, 50 lbs.	lb.	1.24	—
25 lbs.	lb.	1.26	—
50%, pails, 50 lbs.	lb.	1.79	—
25 lbs.	lb.	1.81	—
Mercury (see Quicksilver)			
Ammoniated (see white precipitate).			
Bichloride (see Corrosive sublimate).			
Bisulphate, bots., 5 lbs.	lb.	2.62	2.64
fib., dms., 100 lbs.	lb.	2.49	—
jars, 25 lbs.	lb.	2.51	—
Chloride (see Calomel).			
Iodide, red, N.F., bots., 5 lbs.,	lb.	4.56	—
cns., 25 lbs.	lb.	4.45	—
fib., dms., 100 lbs.	lb.	4.45	—
yellow, bots., 5 lbs.	lb.	4.66	—
cns., 25 lbs.	lb.	4.55	—
fib., dms., 100 lbs.	lb.	4.55	—
Nitrate ointment (see Citrine ointment).			

Lime-Sulphur Solut.—Methanol

Mercury, Oxide, red, N.F. (see Red precipitate).			
tech. (see Red, mercury oxide).			
yellow, dom., tech., bbls.	lb.	2.26	—
USP, fib., dms., 50 lbs. or more	lb.	2.78	—
more	lb.	2.78	—
Mercury and chalk, ctns., 5 lbs.,	lb.	1.72	—
fib., dms., 25 lbs.	lb.	1.60	1.65
Mesityl oxide, cns., works	lb.	.20½	.22½
dms., c.l., dlvd.	lb.	.16	—
l.c.l., dlvd.	lb.	.16½	—
tanks, dlvd.	lb.	.15	—
Metal leaf, pkgs., of 20 books (500 leaves), aluminum, 5½x5½ in.	pkg.	1.50	1.75
composition, 5½x5½ in.	pkg.	1.70	1.80
gold, XX deep, 23K, 3⅜x3⅜ in.	pkg.	15.25	-15.75
3⅜x3⅜ in.	pkg.	16.15	-17.50
4x4 in.	pkg.	19.50	-20.00
3⅜x5⅞ in.	pkg.	22.50	-23.00
3⅜x5⅞ in.	pkg.	24.50	-25.00
Silver, 3¼x3¾ in.	pkg.	2.75	2.85
Metanitroparatoluidin, bbls.	lb.	1.30	—
Metaphenylenediamine, kgs.	lb.	.65	—
Metatoluylenediamine, kgs.	lb.	.65	—
Methanol, natural, denat., grade, tanks.	gal.	.40	—
97%, tanks.	gal.	.32	—
95%, tanks.	gal.	.31	—

Methanol in drums, car lots, is 5c. per gal. higher, frt. alld., east of the Rocky Mts. Prices on the Pacific Coast are 5c. higher on tanks and 4c. per gal. higher on drums, car lots


Form M=123 | 2M | 8/39
THE HARSHAW CHEMICAL CO.
LABORATORY REPORT
PHILADELPHIA, PA. 1/11/40
SAMPLE NO. 27304
(Use this number in inquiries)
MATERIAL UVERSOL Lead Liquid 24%
FROM UVERSOL Department
MARKED Batch #653, Pkg. Nos. 2838-2873 Inc.
SENT BY GU
RECEIVED AT LABORATORY 1/10/40
RESULTS OF ANALYSIS
Lead (Pb) as metal 24.06%
Specific Gravity @ 20°C. 1.142
Pounds per gallon 9.53
Bulking Value .1049

A Typical Analysis

DECIMALS DETERMINE DRIER DEPENDABILITY

• Because of the minute quantities of drying metals in your finished paint or varnish, it is imperative that the metal content of driers be uniform and available . . . Harshaw, through laboratory control of drier production, maintains, with extreme accuracy, a uniform and completely available metal content.

Lead driers, for example, are made in various types, each with a definite amount of metal . . . The designated metal percentage in each drier is controlled analytically and is dependable . . . Your trial order will have prompt attention.

*Uversol Lead Liquid 16%
*Uversol Lead Liquid 24%
*Uversol Lead Liquid 32%
*Uversol Lead Solid 40%
*Uversol Lead Manganese Liquid
*Uversol Lead Manganese Solid
Lead Linoleate Solid Precipitated 26.15%
Lead Linoleate Solid Fused 26.5%
Lead Paste No. 45
Lead Manganese Paste No. 46
Lead Manganese Paste No. 49-A
Lead Resinate Fused 10%
Lead Resinate Fused 16%
Lead Resinate Pale Fused 16%
Lead Resinate Fused 19%
Lead Resinate Precipitated

*Naphthenate Driers

THE HARSHAW CHEMICAL COMPANY

Offices and Laboratories: Cleveland, Ohio
New York, Philadelphia, Chicago, Detroit, Pittsburgh, Cincinnati, East Liverpool, Los Angeles, San Francisco
Works at Cleveland and Elyria, Ohio and Philadelphia, Pa.

Quality products since 1892

Methanol—Oil, Lubricants

Methanol, synth., pure, dms., c.l., Zone 1, frt. alld..gal. .38 - —
2, frt. alld.....gal. .41 - —
3, frt. alld.....gal. .42 - —
4, frt. alld.....gal. .44 - —
l.c.l., Zone 1, frt. alld. or dlvd..gal. .40½- —
2, frt. alld. or dlvd..gal. .47 - —
3, frt. alld. or dlvd..gal. .44½- —
4, frt. alld. or dlvd..gal. .60 - —
tanks, Zone 1, frt. alld...gal. .33 - —
2, frt. alld.....gal. .35½- —
3, frt. alld.....gal. .36½- —
4, frt. alld.....gal. .37 - —

Synthetic methanol sales zones are:—Zone 1, Conn., Del., D. C., Ill., Ind., Iowa, Ky., Me., Md., Mass., Mich., Minn., Mo., N. H., N. J., N. Y., N. C., Ohio, Penn., R. I., Tenn., Vt., Va., W. Va., Wis.; Zone 2, Ala., Ark., Col., Fla., Ga., Kans., La., Miss., Neb., N. D., Okla., S. C., S. D., Tex., Wyo.; Zone 3, Los Angeles, Cal.; San Francisco, Cal.; Portland, Ore., and Seattle, Wash.; Zone 4, Ariz., Cal., N. Mex., Mont., Nev., Idaho, Ore., Utah, Wash.

Methyl acetate, 97-99%, dms., c.l., E. of Miss. R..lb. .10½- —
W. of Miss. R.....lb. .11½- —
l.c.l., dms., dlvd. E. of Miss R..lb. .11. - —
W. of Miss. R.....lb. .12 - —
tanks, dlvd., E. of Miss. R. lb. .09½- —
W. of Miss. R.....lb. .10½- —
tech., dms., c.l., dlvd., E. of Miss. R..lb. .07 - —
W. of Miss. R.....lb. .08 - —
l.c.l., dlvd. E. of Miss. R. lb. .07½- —
W. of Miss. R.....lb. .08½- —
tanks, dlvd. E. of Miss. R. lb. .06 - —
W. of Miss. R.....lb. .07 - —
Acetoacetate, dms., c.l., works, frt. alld..lb. .29½- —
Acetone, natural, dms., c.l..gal. .41 - .47
l.c.l.....gal. .44 - .63
tanks.....gal. .35 - .39

Methyl acetone prices are frt. alld., east of Rocky Mts. Prices on Pacific Coast are 3c. per gal. higher on tanks and 4c. per gal. higher on drums, car lots.

Synthetic, dms., c.l., Zone 1, frt. alld. E. of Rockies..gal. .38 - —
2, frt. alld. E. of Rockies, gal. .41 - —
2, Pacific Coast.....gal. .42 - —
4.....gal. .44 - —
l.c.l., Zone 1, frt. alld. E. of Rockies..gal. .41 - —
2, frt. alld. E. of Rockies..gal. .475 - —
2, Pacific Coast.....gal. .46 - —
4.....gal. .606 - —
tanks, Zone 1, frt. alld., E. of Rockies..gal. .315 - —
2, frt. alld. E. of Rockies, gal. .34 - —
2, Pacific Coast.....gal. .35 - —
4.....gal. .355 - —

Methyl acetone, synthetic, sales zones are:—Zone 1, Conn., Dela., D. C., Ill., Ind., Iowa, Ky., Me., Md., Mass., Mich., Minn., Mo., N. H., N. J., N. Y., N. C., Ohio, Pa., R. I., Tenn., Vt., Va., West Va., and Wis.; Zone 2, Ala., Ark., Col., Fla., Ga., Kans., La., Miss., Neb., N. D., Okla., S. C. and S. D.; Zone 3, Pacific Coast; Zone 4, Ariz., Col., Mont., Nev., Idaho, Ore., Utah, Wash., N. Mex.

Alcohol (see Methanol).
Anthranilate, bots.....lb. 2.10 - 2.25
Benzoate, cns., 25 lbs.....lb. .70 - 1.00
Bromide, cyl.....lb. .65 - .75
Chloride, refrigeration, 500 lbs., and up, machine mfrs. and jobbers, cylinders..lb. .32 - —
service men and consumers, cyl..lb. .36 - —
60 to 499 lbs., cyl., mach. mfrs. and jobbers..lb. .36 - —
service men and consumers, cyl..lb. .40 - —
tanks, multi-unit, mach. mfrs. and jobbers..lb. .31 - —
service men and consumers, lb. .35 - —

Methyl chloride quotations are spot or contract, effective July 1, for delivery to any common carrier point in United States. Prices above are in 60, 90 and 160-lb. cylinders. Prices on the 20-lb. cylinders are uniformly 10c. per pound higher than above prices.

Cinnamate, bls.....lb. 1.75 - 2.00
Formate, dms.....lb. .29 - —
Lactate, dms., l.c.l., dlvd....lb. .30 - —
Iodide, bots.....lb. 3.68 - 3.82
Salicylate, dms.....lb. .35 - .37
cns.....lb. .37 - .40
Violet toner, bbls.....lb. .38 - —
permanent, bbls.....lb. .30 - —
Methylamyl ketone, dms., works, l.c.l..lb. .25 - —
smaller containers, same basis, lb. .28 - —
Methylcellulose, dms., 100 lbs. or more, frt. alld..lb. .70 - —
less than 100 lbs., works...lb. .75 - —
Methylcyclohexane, 98-100%, dms., works, frt. alld., E. of Rockies..lb. .25 - —
Methylcyclohexanol, 98 - 100%, dms., works, frt. alld., E. of Rockies..lb. .30 - —
Methylcyclohexanone, 98 - 100%, dms., works, frt. alld., E. of Rockies..lb. .58 - —
Methylene blue, medc., kgs., 100 lbs..lb. 2.00 - —
cns., 5 lbs.....lb. 2.35 - —
Chloride, dms., f.o.b. works..lb. .18 - .22
Methylethyl ketone, dms., c.l., frt. pd. E. of Rocky Mts., lb. .06½- —
l.c.l., same terms.....lb. .07 - —
tanks, same terms.....lb. .06½- —
Methylheptenone, bots.....lb. 2.45 - 3.00
Methylheptin carbonate, bots..lb. 23.00 -44.00
Methylhexyl ketone, dms., tech., works..lb. .60 - —
Methylisobutyl ketone, dms., 55-gal., c.l., works..gal. .70 - —
l.c.l., works.....gal. .80 - —
smaller containers, works.gal. 1.00 - —
tanks, works.....gal. .70 - —
Methylnaphthyl ketone, dom., cryst., bots..lb. 3.25 - 3.30
imp., bots.....lb. 3.10 - —
Methylpropyl ketone, dms., c.l..lb. .20½- —
l.c.l.....lb. .21 - —
tanks.....lb. .19½- —
Metronite pigment, 120 mesh, containers extra, c.l., f.o.b. Milwaukee..ton. 9.00 - —
l.c.l., same basis.....ton.11.00 - —
180 mesh, containers extra, c.l., same basis..ton.11.00 - —
l.c.l., same basis.....ton.13.00 - —
250 mesh, containers extra, c.l., same basis..ton.13.00 - —
l.c.l., same basis.....ton.15.00 - —
325 mesh, containers extra, c.l., same basis..ton.13.00 - —
l.c.l., same basis.....ton.20.00 - —

Mica, dry grd., amber, No. 1 quality, bgs. extra and returnable, c.l., works..ton.30.00 - —
l.c.l., 5,000 lbs., works, ton.40.00 - —
1,000 lbs., works....lb. .02 - —
500 lbs., works....lb. .02½- —
100 lbs., works....lb. .03 - —
refined, bgs. extra and returnable, c.l., works..ton.20.00 - —
l.c.l., 5,000 lbs., works, ton.22.00 - —
paint, bgs. extra and returnable, c.l., works..ton.55.00 - —
l.c.l., 5,000 lbs., works, ton.65.00 - —
white, No. 1 quality, bgs. extra and returnable, c.l., works..ton.35.00 - —
l.c.l., 5,000 lbs., works, ton.45.00 - —
1,000 lbs., works..lb. .02½- —
500 lbs., works..lb. .03 - —
roofing, bgs. extra and returnable, c.l., works..ton.29.00 - —
l.c.l., 5,000 lbs., works, ton.29.00 - —
paint, bgs. extra and returnable, c.l., works..ton.60.00 - —
l.c.l., 5,000 lbs., works, ton.70.00 - —
wet-ground, paint or lacquer, bgs., c.l., frt. alld. E..lb. .04½- —
l.c.l., ex-Whse., or frt. alld. E..lb. .05 - —
paper, wall or coated, bgs., c.l., frt. alld. E..lb. .04½- —
l.c.l., ex-whse., or frt. alld. E..lb. .04½- —
rubber, bgs., c.l., frt. alld. E. lb. .04¼- —
l.c.l., ex-whse., or frt. alld. E..lb. .04½- —

wet-ground mica prices are ½c. per pound higher west of Rockies.

Milk powder, skimmed, roller, bbls., c.l..lb. .07 - —
l.c.l.....lb. .08 - —
spray, bbls., c.l.....lb. .07½- —
l.c.l.....lb. .08½- —
unskimmed, roller, bbls., c.l., lb. .15¼- —
l.c.l.....lb. .16½- —
spray, bbls., c.l.....lb. .16 - —
l.c.l.....lb. .17 - —
Millet seed, yellow, bgs.....lb. .03¾- .04¼
early fortune, bgs.....lb. .03 - .03½
hulled, bgs.....lb. .06¼- .06¾
Mineral spirits (see Petroleum thinner and V M & P naphtha).
Molasses, blackstrap, tanks, f.o.b., No. Atlantic ports..gal. 05½- .06
f.o.b. New Orleans.....gal. .04½- .05
Molybdate orange (see Orange, molybdate).
Molybdenum metal, kgs., 99% powd..lb. 2.60 - 3.00
Trioxide, pure, kgs., basis Mo. content, works.....lb. 1.00 - —
technical, kgs., basis Mo. content, works.....lb. .80 - —
Monoamylamine, dms., c.l., wks., lb. .52 - —
l.c.l., works.....lb. .53 - .55
tanks.....lb. .50 - —
Monobutylamine, dms., c.l., wks., lb. .50 - —
l.c.l., works.....lb. .51 - .53
tanks, works.....lb. .48 - —
Monochlorobenzene, dms., l.c.l., lb. .06 - .08
Monoethanolamine, dms., c.l., works..lb. .24 - —
l.c.l., dms.....lb. .25 - —
tanks.....lb. .23 - —
Monoethylamine, basis 100% amine content, dms., l.c.l., works, lb. .65 - —
Monoethylaniline, dms.....lb. .77 Nom.
Monomethylamine, dms., c.l., dlvd..lb. .65 - —
l.c.l., dlvd.....lb. .70 - —
Monomethylpara-aminophenol sulphate, dms..lb. 3.75 - 4.00
Monosodiumphosphate (see Soda phosphate monobasic).
Morphine, bots., 5 ozs.....oz.11.10 - —
cns., 25 oz.....oz.10.90 - —
Acetate, bots., 5 ozs.....oz. 9.00 - —
bots., 25 ozs.....oz. 8.80 - —
Ethylhydrochloride, bots., 5 ozs. oz.10.75 - —
cns., 25 ozs.....oz.10.55 - —
Hydrobromide, bots., 5 ozs..oz. 8.95 - —
cns., 25 ozs.....oz. 8.75 - —
Sulphate, bots., 5 ozs.....oz. 9.00 - —
cns., 25 ozs.....oz. 8.80 - —
Morpholine, dms., 55 gal., l.c.l., works..lb. .75 - —
smaller containers, works....lb. 1.00 - —
Mullein leaves, cns.....lb. .12 - .14
flowers, cns.....lb. 1.55 - 1.60
Musk, nat., Tonquin, grained, bots..oz.21.00 -22.00
pods., caddies, 20 ozs....oz.19.00 -21.00
synth., ambrette, cns., 100 lbs. or more—lb. 3.65 - —
5 lbs. to 75 lbs.....lb. 3.80 - —
1 lb.....lb. 3.95 - —
ketone, cns., 100 lbs. or more, lb. 3.70 - —
5 lbs. to 75 lbs.....lb. 3.95 - —
1 lb.....lb. 4.10 - —
xylol, cns., 100 lbs. or more, lb. 1.05 - —
5 lbs. to 75 lbs.....lb. 1.15 - —
1 lb.....lb. 1.20 - —
Musk root, bls.....lb. .60 - .65
Mustard seed, California, brown, bgs..lb. .08¾- .09¼
Danish, yellow, bgs.....lb. .11¼- .11¾
Dutch, yellow, bgs.....lb. .10¾- .11¼
English, yellow, bgs.....lb. No stocks
Roumanian, yellow, bgs....lb. .10 - .10½
Myrobalans, J1, bgs, f.a.s...ton.32.00 - —
J2, bgs., f.a.s.....ton.27.50 - —
Extract, liquid, 25%, bbls....lb. No prices
solid, 50%, bbls.....lb. No prices
powdered, 70%, bbls.....lb. .06 Nom.

N

Naphtha, Painters' (see Petroleum naphtha V. M. & P.).
Solvent (see S).
Naphthalene, crude, dom., 74 deg., bgs., c.l., works, 100 lbs. 2.25 Nom.
bgs., bbls., l.c.l., works, 100 lbs. 2.50 Nom.
78 deg., bgs., c.l., works, 100 lbs. 2.50 Nom.
l.c.l., works .....100 lbs. 2.75 Nom.
import, bgs., c.i.f.....100 lbs. 2.90 Nom.
refined, balls or flakes, bbls., wholesalers and jobbers, f.o.b. works .....lb. .06¾- —
50-lb. cs., same basis..lb. .07 - —
pkgs. (16 oz.), same basis, lb. .07½- —
(12 oz.) same basis..pkg. .06 - —
chipped, crushed, bbls., same basis..lb. .06 - —
rice, cryst., powd., bbls., same basis..lb. .06¾- —

Nerolin, cryst., cns.....lb. 1.25 - 1.35
Nickel carbonate, bbls.....lb. .36 - .36½
Chloride, bbls.....lb. .18 - .20
Cyanide, 100-lb. dms.....lb. 1.40 - —
25-lb. bot.....lb. 1.50 - —
Oxide, black, bbls.....lb. .35 - .38
Salt, bbls.....lb. .13 - .13½
Nicotine sulphate, 40%, dms., works, frt. alld..lb. .70 - —
10-lb., tins.....lb. .86½- —
Nitercake, bulk, works.....ton.16.00 - —
Nitrobenzene, dbl. dist., dms., c.l. lb. .06 - —
l.c.l. .....lb. .09 - —
tanks .....lb. .07 - —
Nitrocellulose, alcohol-soluble, ½ and 40, sec. vis., bbls., works, lb. .38 - —
bronzing, 20, 40, 70 sec. vis., bbls., works..lb. .39 - —
ester-soluble, ¼, ½, 5-6, 15-20 sec., bbls., c.l., dry weight, works..lb. .29 - —
l.c.l., ¼, ½, 5-6, 15-20 and higher vis., bbls...lb. .36 - —
Nitrocellulose, lacquer, 20-30 and 60-80 sec., vis., bbls., works, lb. .29 - —

Nitrocellulose prices are quoted on the basis of dry weight; denatured alcohol used in manufacture is charged extra. Barrels are to be paid for extra, but are returnable.

Nitogen solution, nitrogen basis, tanks, f.o.b. Atlantic and Gulf ports..unit-ton.1.2158 - —
Nitrogenous fertilizer material, 8-11% ammon., dom., bulk, f.o.b. Carrollville, Wis., dlvd.....unit-ton. 2.00 - —
f.o.b. Chemical, Ill., unit-ton. 2.00 - —
East Coast producing points..unti-ton. 2.90 - —
import, bgs., c.i.f. Atlantic ports, shipt..unit-ton. 2.60 - —
Nitronaphthalene, bbls.....lb. .24 - .26
Nutgalls, Alleppo, bgs., cs.....lb. .29 - .30
Extract (see Gall extract).
Nutmegs, 80s, bgs., cs.....lb. .23 - .23½
110s, bgs., cs.....lb. .20½- .21
West Indian, bgs.....lb. .12½- .13
Nux vomica, bls.....lb. .05 - .06
powd., bbls., bxs.....lb. .08 - .09

O

Oakbark extract, 25% tan., bbls., c.l., wks..lb. .03½- —
l.c.l., bbls., wks.....lb. .03¾- —
tanks .....lb. .02¾- —
Ocher (see Yellow).
Octane, 100-140° C., mixed, dms., c.l., G.3..gal. .12½- —
l.c.l., G.3 .....gal. .17 - —
tanks, G.3.....gal. .10½- —
Octyl acetate, dms., c.l., works.lb. .16 - —
l.c.l., works .....lb. .17 - —
tanks, works .....lb. .15 - —
Oil, almond, bitter, artif. (see Benzaldehyde).
natural, bots.....lb. 2.00 - 2.10
s.p.a., bots.....lb. 2.10 - 2.20
sweet, true, exp., cns.....lb. 1.00 - 1.25
Amber, crude, cns.....lb. .19 - .20
ref'd, cns.....lb. .50 - .51
Amyris, cns.....lb. 3.00 - 3.25
Angelica root, bots.....lb.42.00 -45.00
seed, bots.....lb.70.00 -75.00
Anilin (see A).
Anise, USP, cns., dms.....lb. .73 - .78
Apricot, kernels, cns.....lb. .35 - .40
Babassu, tanks.....lb. .06⅝- —
Bay, W. I., 50-55% phenols, cns—lb. 1.20 - 1.25
55-60% phenols, cns.....lb. 1.30 - 1.35
Bergamot, artif., cns.....lb. 1.25 - 1.30
natural, coppers.....lb. 4.25 - 4.50
Betula (see Oil, sweet birch).
Birch (see Oil, sweet birch).
Birchtar, crude, dms.....lb. .27 - .28
rectified, cns.....lb. .85 - .90
Bois de rose, Brazil, cns....lb. 1.60 - 1.65
Cade, USP IX (see Oil, juniper tar).
Cajeput, tech., dms.....lb. .61 - .62
USP IX, cns.....lb. .71 - .72
Calamus, cns.....lb. 8.00 - 8.25
Camphor, sassafrassy, cns...lb. .39 - .40
dms.....lb. .36 - .37
white, /cns.....lb. .52 Nom.
dms.....lb. .50 Nom.
Cananga, native, cns.....lb. 1.75 - 1.80
rectified, cns.....lb. 2.20 - 2.25
Capsicum (oleoresin) N. F. VI, cns..lb. 2.50 - 2.75
Caraway, USP, cns.....lb. 3.00 - 3.25
Cardamom, bots.....lb.15.00 -16.00
Cassia, USP, cs., dms.....lb. 1.35 - 1.40
Castor, blown, one-way dms., c.l..lb. .14¾ Nom.
l.c.l. .....lb. .15½- —
medicinal, bbls., c.l.....lb. .13¼ Nom.
l.c.l. .....lb. .14 - —
cns. (1-gal.), l.c.l.....lb. .17 - —
dms. (returnable), c.l.....lb. .12½ Nom.
l.c.l. .....lb. .13¾- —
(5-gal), l.c.l.....lb. .15 - —
tanks .....lb. .12½ Nom.
No. 3, bbls., c.l.....lb. .12¾ Nom.
l.c.l. .....lb. .13½- —
dms. (returnable), c.l.....lb. .12½ Nom.
l.c.l. .....lb. .13¼- —
tanks .....lb. .12 Nom.
dehydrated, dms., c.l.....lb. .181 Nom.
l.c.l. .....lb. .185 - —
tanks .....lb. .17½ Nom.

Castor oil, med. and No. 3, prices are dlvd. all points between N.Y. and Philadelphia, Albany, and N. E. States; Chicago c.l. prices ⅝c. higher than N. Y.; l.c.l. prices ¾c. higher than N. Y.; one-way drums, ¼c. higher, all points.

sulphonated, 50% (43% fat), dms., c.l..lb. .09 - —
l.c.l. .....lb. .09½- —
75% (63% fat), dms., c.l..lb. .11 - —
80% (68% fat), dms., c.l..lb. .11¾- —
l.c.l. .....lb. .12¾- —
Cedarleaf, cs.....lb. 1.00 - 1.05
dms. .....lb. .95 - 1.00
Cedarwood, Oregon, cns., dms, lb. .28 - .30
Southern, cns., dms.....lb. .19 - .22
Celery bots.....lb. 7.25 - 7.50
Chaulmoogra, USP, cns., 500 lbs. lb. 1.00 - —
25 lbs. .....lb. 1.25 - —
Chinawood, dms.....lb. .27 - .28
tanks .....lb. .26 - .27
Cinnamon, Ceylon, bots.....lb. 9.25 -25.00
Seychelle, bots.....lb. 7.25 - 8.00
Citronella, Ceylon, cns.....lb. .45 - .46
dms. .....lb. .43 - .44
Java, cns., dms.....lb. .42 - .45
Clove, makers, USP, cns.....lb. 1.38 - 1.43
dms. .....lb. 1.33 - —
Coconut, Manila, crude, tanks, lb. .03⅜- —
edible, 76°, tax incl., dms, (returnable), c.l..lb. .08½- —
l.c.l. .....lb. .09½- —
tanks .....lb. .07½- —
Oil, cod, Newfoundland, shipt., untanked..gal. .72 Nom.
Norwegian, shipt., bbls....gal. .65 Nom.
Codliver, med., USP, bbls..bbl.32.00 -35.00
Coriander, bots.....lb.12.50 -13.00
Corn, crude, tanks, wks.....lb. .06¼- .06¼
refd., bbls.....lb. .08¼- .08¾
Cottonseed, cooking, bbls.....lb. .08¾- —
salad, bbls.....lb. .09¼- —
import, Brazilian, semi-refd., bulk..lb. .04 Nom.
Creosote (see C).
Croton, N.F., cns.....lb. 3.50 - 3.75
Cubeb, USP, cns.....lb. 3.50 - 3.75
Crude (see Petroleum, crude).
Cumin, bots.....lb. 7.50 - 8.00
Cypress, dom., bots.....lb. 5.25 - 5.50
import, cns. .....lb.12.00 -12.25
Degras (see D).
Diesel, Bayonne, bulk.....bbl. 1.75 - —
California, 24 plus, bulk...bbl. 1.55 - —
Dill seed, bots.....lb. 3.00 - 3.25
weed, bots.....lb. 3.60 - 3.85
Dip (see L).
Erigeron, cns.....lb. 2.25 - 2.30
Eucalyptus, cns.....lb. .60 - .63
dms. .....lb. .57 - .60
Fennel, sweet, cns.....lb. 2.25 - 2.50
Fuel, bunker, California, tide-water..bbl. .90 - —
Gulf Coast.....bbl. .90 - .95
Louisiana, Arkansas, 10-14.bbl. .85 - 1.00
N. Y. and N. J. terminals:—
Monday .....bbl. 1.50 - —
Tuesday .....bbl. 1.50 - —
Wednesday .....bbl. 1.50 - —
Thursday .....bbl. 1.50 - —
Friday .....bbl. 1.50 - —
Saturday .....bbl. 1.50 - —
North Texas, 18-22.....bbl. .65 - .80
24-28, zero cold test....bbl. 1.00 - 1.10
Oklahoma, 18-22.....bbl. .65 - .80
24-28, zero cold test....bbl. 1.00 - 1.05
24-28, 15 and above.....bbl. .80 - .85
Pennsylvania, 3640.....gal. .04 - .04½
Furnace, Bayonne, 1, bulk, refinery..gal. .05½- —
2, bulk, same basis....gal. .05 - .0525
4, bulk, same basis....gal. .0445- .0455
Louisiana - Arkansas, 32 - 36, light straw..gal. .03½- .03½
Oklahoma, 28-30.....gal. .03 - —
32-36 .....gal. .03¾- .03½
36-38 .....gal. .03⅝- .03¾
38-40 zero, 60 e.p.....gal. .03¾- .04
Fusel (see F).
Gas, Bayonne, bulk.....gal. .04 - —
Gulf Coast, bulk.....gal. .03½- —
North Texas, bulk.....gal. .02⅞- —
Oklahoma, bulk.....gal. .03½- —
Gaultheria (see Oil, wintergreen leaf).
Geranium, Algerian, rose, cns., lb. 2.75 - 3.10
Bourbon, cns.....lb. 2.75 - 3.10
Turkish (see Palmarosa).
Grapefruit, cns.....lb. 1.75 - 1.80
Grapeseed, dms.....lb. .40 - .45
Ginger, dist., bots.....lb. 5.00 - 5.50
Gualac wood, concrete, bots..lb. 2.50 - 2.55
Haarlem, import, bots....gross. 5.00 - 5.50
Hemlock, cns.....lb. 1.00 - 1.25
Juniper berry, USP, cns.....lb. 1.85 - 2.00
Wood, tech., cns.....lb. .42 - .45
Juniper tar, USP XI, 1,000 lbs., dms..lb. .53 - .58
cns. .....lb. .55 - .60
Lard, common, 1, bbls.....lb. .08¾- —
2, bbls.....lb. .08½- —
extra, bbls.....lb. .09 - —
1, bbls.....lb. .08¾- —
Winter, strained, extra, bbls., lb. .09¼- —
prime, burning, bbls.....lb. .10 - —
prime, lned., bbls.....lb. .09½- —
Laurel, bots.....lb. 4.50 - 4.60
Lavandin, cns., 25 lbs.....lb. 2.15 - 2.20
Lavender flower, French, 50% ester, cns..lb. 5.25 - 5.30
38-42% ester, cns.....lb. 4.00 - 4.05
35-38% ester, cns.....lb. 2.75 - 2.80
30-32% ester, cns.....lb. 2.50 - 2.60
garden, cns.....lb. .42 - .45
spike, Spanish, tech, cns...lb. 1.20 - 1.25
dms. .....lb. 1.15 - 1.20
Lemon, Calif., cns.....lb. 3.00 - —
Mesinna, coppers, cns.....lb. 3.10 - 4.00
Terpeneless, Type 1.....lb.10.75 -16.50
Type 2.....lb. 8.50 -14.50
Lemongrass, native, cns., dms. lb. .80 - .85
Lime, dist., West Indian, cns. lb. 3.75 - 4.25
expressed, cns.....lb. 7.25 - 7.50
Terpeneless, Type 1.....lb.42.00 -46.50
Type 2.....lb.60.00 -78.00
Linalce wood, cns.....lb. 1.50 - 1.60
Linseed, raw, bbls., c.l.....lb. .1060- .1080
l.c.l., 10 to 69.....lb. .1080- .1100
5 to 9.....lb. .1120- —
less than 5.....lb. .1140- —
tanks .....lb. .1000- .1020
Boiled linseed oil .004 cents over raw.
Lovage, bots.....lb.41.25 -60.00
Lubricating, at refinery (including U.S. tax 4c. per gal):—California, green, 70, 80, 100, vis., dms.....gal. .20 - —
140 vis., dms.....gal. .25 - —
green, pale, 750, 900 vis., dms..gal. .26 - —
green, pale, red, 200, 300, 350, 400, 450, 500, 600, 700 vis. dms..gal. .26 - —
Oklahoma, bright stocks, 100-110 D, color 4, 0-10 pour, tank..gal. .27 - —
15-25 pour, tanks..gal. .24 - —
150-160 D, color, 4½, 0-10 pour, tanks..gal. .28 - —
15-25 pour, tanks..gal. .26 - —
150-160 E, color 5½, 15-25 pour, tanks..gal. .27 - —
190-200 D, color 4½, 15-25 pour, tanks..gal. .28 - —
neutrals, 0-10 pour, 150 vis., 3 colors, tanks..gal. .13 - —
180 vis., 5 color, tanks, gal. .15½- —
4 color, tanks.....gal. .15 - —
200 vis., 3 color, tanks, gal. .16½- —
4 color, tanks....gal. .16 - —
250 vis., 3 color, tanks, gal. .17 - —
250 vis., 4 color, tanks, gal. .16½- —
280 vis., 3 color, tanks. gal. .18½- —
4 color, tanks....gal. .18 - —

15-25 pour prices are ½c. per gallon higher than zero to 10° pour.

Penn., bright, 600, 10-15 pour, tanks..gal. .30 - .34
25 pour, tanks..gal. .32 - .35
cylinder, 600 fire, tanks. gal. .19 - —
600 flash, tanks.....gal. .23 - —
630 flash, tanks.....gal. .25 - —
635 fire, tanks.....gal. .21 - —
650 fire, tanks.....gal. .22 - —
Warren, E, amber, tanks, gal. .25 - —

Oil, lubricating, at refinery, Penn., Warren, E, neutral, 150 vis., 3 color, tanks..gal. .27 - .31
180 vis., 3 color, tanks.gal. .30 - .33
200 vis., 2 color, tanks.gal. .31 - .37
spot, Penna., bright, bbls., c.l., f.a.s..gal. .30 - —
unfiltered, 600 s.r....bbls., f.a.s..gal. .25 - —
600 flash, s.r., bbls., c.l. gal. .27 - —
630 flash, bbls., c.l., f.a.s., gal. .30 - —
Warren, E., bbls., c.l., f.a.s., gal. .28 - —
smaller lots, f.o.b..gal. .29 - —
Mace, dist., cns., dms.....lb. 1.90 - 1.95
Mandarin, superior, coppers..lb. 6.25 - 6.30
Menhaden, crude, tanks, f.o.b. Balto..gal. .35 Nom.
refd., alkali, dms.....lb. .0810- —
tanks .....lb. .0690- —
blown, dms.....lb. .0830- —
kettle-boiled, dms.....lb. .0930- —
light-pressed, dms.....lb. .0750- —
tanks .....lb. .0690- —
Mineral, white (see Oil, white mineral).
Mustard, artif., USP, cns....lb. 1.60 - 1.70
dist., natural, bots.....lb. 8.50 - 9.00
Neatsfoot, 20° cold test, bbls., lb. .19¼- —
extra, bbls.....lb. .09 - —
1, bbls.....lb. .08½- —
pure, bbls.....lb. .14¼- —
prime, bbls.....lb. .09¼- —
sulphonated, 25% moisture, dms..lb. .10½- —
Neroli, bots.....lb. 100.00 -150.00
Nutmeg, USP, cns., dms.....lb. 1.90 - 1.95
Oiticica, dms.....lb. .20 - .21
Oleo, 1, bbls.....lb. .07¾- —
2, bbls.....lb. .07½- —
Olibanum, bots.....lb. 5.00 - 5.25
Olive, denat., bbls.....gal. .95 - .98
edible, bbls.....gal. 2.00 Nom.
foots, dms.....lb. .08¾- .08½
sulphonated, 50% (43% fat), dms., c.l..lb. .11½ Nom.
l.c.l. .....lb. .12½ Nom.
75% (63% fat), dms., c.l..lb. .13½ Nom.
l.c.l. .....lb. .14½ Nom.
80% (68% fat), dms., c.l..lb. .14½ Nom.
l.c.l. .....lb. .15½ Nom.
Orange, sweet, dist., cs.....lb. .90 - —
Expressed, African, cns., dms., lb. 1.10 - 1.15
Calif, cns.....lb. 1.60 - —
Florida, cns.....lb. 1.20 - 1.25
Messina, USP, coppers.lb. 3.00 - 3.75
West Indies, cns.....lb. 2.45 - 2.50
terpeneless .....lb. 68.00 -69.00
Origanum, cns.....lb. 1.10 - 1.65
Orris, Florentine, concrete, extra strong, bots..oz. 5.50 - 6.00
Palm, Niger, cks.....lb. .05½ Nom.
shipment .....lb. No prices
softs, 12½%, bulk, shipt....lb. No prices
20%, bulk, shipt.....lb. No prices
Sumatra, shipt., bulk.....lb. No prices
Palmarosa, cns.....lb. 2.75 - 3.00
Palmkernel, bulk, shipt.....lb. No prices
Paraffin, 320° flash, 60-70 vis., tanks, G. 3..gal. .05¼- —
350° flash, 70-80 vis., tanks, G. 3..gal. .05½- —
80-85 vis., bbls., extra, Ind. refy..gal. .12 - —
350° flash, 100-105 vis., bbls., extra, Ind. refy..gal. .14 - —
360° flash, 100-110 vis., tanks, G. 3..gal. .05¾- —
Patchouli, bots., cns.....lb. 4.50 - 5.00
Peanut, crude, dom., tanks..lb. .06½ Nom.
refd., edible, bbls.....lb. .09½- .09¾
Pennyroyal, dom., cns.....lb. 3.00 - 3.10
import, cns.....lb. 2.75 - 2.80
Peppermint, natural, cns., dms. lb. 2.75 - 3.00
redist., USP, cns., dms....lb. 3.00 - 3.25
Perilla, dms.....lb. .18¾- .19
tanks .....lb. .18 - .18¼
Petitgrain, Paraguay, cns....lb. 1.50 - 1.60
Pimento berry, cns.....lb. 4.35 - 7.25
leaf, cns.....lb. 2.75 - 3.00
Pine, dest.-dist., straw-color, dms., dlvd., E. ports....gal. .53 - .56
steam-dist., dms.....gal. .59 - —
tanks .....gal. .54 - —
Pineneedle, Siberian, cns....lb. 1.20 - 1.25
Putty, bbls., E. Segundo, Richmond, Cal..gal. .22½- —
contracts .....gal. .19¼- —
Whiting, Ind.....gal. .28 - —
dms., c.l., Bost., Provid..gal. .25 - —
l.c.l., same basis.....gal. .27 - —
tanks, same basis.....gal. .18 - —
Martinez, Cal.....gal. .28 - —
Rapeseed, blown, bbls.....lb. .17 - .17½
denat., bbls.....gal. 1.00 - 1.05
Red, dist. or saponif. dms., dlvd..lb. .08½- .09½
tanks, dlvd.....lb. .08 - —
Rose, artif., bots.....oz. 2.00 - 2.25
natural, coppers.....oz. 5.25 -22.50
Rosemary, Spanish, cns.....lb. .75 - .80
dms. .....lb. .70 - .75
Rosin, 1st rectfd., dms.....gal. .50 - —
2d rectfd., dms.....gal. .52 - —
3d rectfd., dms.....gal. .56 - —
Rue, bots.....lb. 3.00 - 3.25
Sage, cns.....lb. 2.75 - 3.00
Sandalwood, E. I., USP, cns.lb. 5.25 - 5.50
Mysore, cns., case lots.....lb. No prices.
Sardine, crude, tanks, Pac. Cst. gal. .37 Nom.
refd., alkali, dms.....lb. .0810- —
tanks .....lb. .0750- —
kettle-boiled, dms.....lb. .0930- —
light-pressed, dms.....lb. .0750- —
tanks .....lb. .0690- —
Sassafras, artif., cns.....lb. .77 Nom.
dms. .....lb. .76 Nom.
natural, cns., dms.....lb. 1.20 - 1.25
Savin, cns.....lb. 3.15 - 3.20
Savory, cns.....lb. 2.00 - 2.25
Sesame, refd., dom., dms....lb. .11½- .11¾
Shingle stain, bbls., c.l., wks., gal. .19 - —
l.c.l., works .....gal. .20 - —
tanks, works .....gal. .14 - —
Snakeroot, Canada, cns.....lb. 9.50 -10.00
Soybean, dom., crude, dms...lb. .06¾- .07⅛
tanks .....lb. .06 - —
refd., dms.....lb. .08 - .08⅛
tanks .....lb. .07¼- —
Spearmint, dms.....lb. 2.20 - 2.25
Sperm, bleach, 38° dms.....lb. .1030- —
45°, dms.....lb. .0960- —
natural, dms.....lb. .0910- —
Spruce, cns., dms. .....lb. 1.00 - 1.25
Sweet, birch, North, cns.....lb. 2.25 - 2.65
South, cns. .....lb. 1.45 - 1.50
Tall, crude, dms., c.l., works, ton. 35.00 - —
l.c.l., works.....ton. 40.00 -55.00
tanks, works .....ton. 25.00 - —
Refined, dms., c.l., works...lb. .04 - .05½
l.c.l., works.....lb. .04½- .06¼
tanks, works.....lb. .03½- .05
Tallow, acidless, bbls.....lb. .08½- —
tanks .....lb. .08 - —
Tansy, cns .....lb. 6.00 - 6.25
Tar, pine, cm'l, dms., c.l., dlvd. E. cities..gal. .26 - —
E. ports .....gal. .25 - —
l.c.l. .....gal. .20 - —
tanks, dlvd. E. cities....gal. .20 - —
rectfd., USP, bbls., dlved., E. ports..gal. .59 - —

Oil, tar acid (see T).
Teaseed, crude, dms.....lb. .12½ Nom.
refined, dms.....lb. .14 Nom.
Tea Tree (see Oil, Ti tree).
Thyme, NF, red, dms.....lb. 1.35 - 1.40
white, dms.....lb. 1.75 - 1.80
Tung (see Oil, chinawood).
Ti tree, cns.....lb. 2.30 - 2.80
Turkey red (see Oil, castor, sulphonated).
Turpentine (see T).
Turtle, cns.....gal. 7.50 Nom.
Valerian, bots.....lb. 8.00 - 9.00
Vetiver, bots.....lb. 3.50 -15.00
Walnut, crude, dms.....lb. .15 Nom.
refd., dms.....lb. .16 Nom.
Whale, refd., natural, dms..lb. .0910- —
winter, bleach, dms.....lb. .0950- —
Wheat germ, cns., dms....gal. 17.50 -25.00
White, mineral, dom., dms., tech., 50-60 vis., dms.gal. .33 - .34
65-75 vis., dms.....gal. .40 - .46
80-90 vis., dms.....gal. .41 - .47
USP, 80-90 vis., dms....gal. .44½- .50
95-105 vis., dms.....gal. .57 - .58
125-135 vis., dms.....gal. .64½- .65½
140-150 vis., dms.....gal. .67 - .69
175-185 vis., dms.....gal. .72½- .73½
200-210 vis., dms.....gal. .74½- .75½
320-330 vis., dms.....gal. .78 - .81
335-345 vis., dms.....gal. .81 - .82
Russian, 80-90 vis., dms.gal. No prices
145-155 vis., dms.....gal. No prices
175-185 vis., dms.....gal. No prices
335-345 vis., dms.....gal. No prices
Wintergreen, natural, North, cns..lb. 4.00 - 8.00
South, cns.....lb. 3.05 - 3.75
synth (see Methyl salicylate).

Oil, wood (see Oil, chinawood).
Wormseed, cns.....lb. 3.75 - 4.00
Wormwood, cns.....lb. 5.60 - 5.75
Ylang-ylang, Bourb., bots., cns. lb. 5.75 - 6.50
Manila, bots.....lb. 18.00 -24.00
Olivine, aggregate, c.l., mines, ton. 7.00 -11.00
Lumps, same basis.....ton. 7.00 - —
Spalls, same basis.....ton. 5.00 - —
ground, 325 mesh, c.l., mines, ton. 20.00 - —
200 mesh, c.l., mines....ton. 17.00 - —
100 mesh, c.l., mines....ton. 15.00 - —
20 mesh to dust.....ton. 12.00 - —
Opium USP, cns.....lb. 11.50 -12.50
gran., cns.....lb. 12.50 -13.50
powd., cns.....lb. 12.50 -13.50
Orange Lake, Persian, bbls....lb. .30 - .45
Mineral, Amer., bbls., 5 tons, dlvd. Ala., Ark., Cal., Fla., Ga., La., Miss., Okla., Tex., and W. of Cascade Mts. in Ore. and Wash....lb. .11¼- —
Ariz., Idaho, Nev., Utah and E. of Cascade Mts. in Ore. and Wash...lb. .11¾- —
Colo., Mont., N. M., Wyo..lb. .11½- —
Other points.....lb. .11 - —
smaller lots, dlvd., Ala., etc..lb. .11¾- —
Ariz., etc.....lb. .12¼- —
Colo., Mont., N. M., Wyo..lb. .12 - —
Other points.....lb. .11½- —
Mineral, French, Tours, casks, ex dock..lb. .13½- —
kgs., ex dock.....lb. .14½- —
Molybdate, bbls.....lb. .31 - —
Toner, bbls.....lb. .80 - —

Oil, Lub.—Orthotoluene

Orangeflower petals, cs.....lb. .50 - .65
Orange peel, bitter, bls.....lb. .09 - .10
sweet, bls.....lb. .17 - .19
Orris root, Florentine, bgs.....lb. .11 - .14
fingers, cs.....lb. 1.25 - 1.30
powd., bbls., bxs.....lb. .15 - .16
Verona, bls.....lb. .11 - .14
powd., bxs., cs.....lb. .15 - .16
Orthoanisidin, bbls.....lb. .70 - —
Orthochloroaniiin, dms.....lb. .60 - .75
Orthochlorophenol, dms.....lb. .32 - —
Orthocresol, dms., c.l., works.lb. .16 - —
l.c.l., same basis.....lb. .16½- —
Orthodichlorobenzene, dms., c.l., works, frt. alld. E. of Rockies..lb. .06 - —
l.c.l., same basis.....lb. .07 - —
100-lb. tins, same basis.lb. .08 - —
50-lb. tins, same basis..lb. .09 - —
tanks, same basis.....lb. .05½- —
Orthodichlorobenzene prices west of Rockies 1c. per lb. higher
Orthonitroaniiin, dms.....lb. .55 - —
Orthonitrochlorobenzene, dms..lb. .15 - .18
Orthonitroparachlorophenol, cns.lb. .75 - —
Orthonitrotoluene, dms.....lb. .09 - —
Orthophenetidin, dms.....lb. .80 - —
Orthotoluidin, dms.....lb. .19 - —
Osage orange extract, cryst., bbls., lb. .21 - —
liquid, 42°, bbls.....lb. .09 - —
51°, bbls.....lb. .10 - —
Oxyquinolin sulphate, cns., 100-lbs., works..lb. 3.50 - —
bots., cns., 1-50 lbs.....lb. 3.65 - 4.00
Orthotoluene hydrochloride, dms.lb. .22 - —
Sulphonate, kgs.....lb. 2.00 - 2.05

KELLOGG'S THE TEST TELLS 1894

In the short time that has passed since its introduction, Kellogg's Synthenol has gained wide acceptance in the industry as the most satisfactory China Wood Oil replacement.

The constantly rising demand for Synthenol has outrun our ability to produce it. To meet this situation additional equipment is being installed and higher levels of production will soon be maintained. We regret delays customers have experienced but can now accept additional tank car orders for delivery March forward.

In quality, Synthenol is pronounced as outstanding over all former progress in dehydration of castor oil. Its acid value is lower. Its color is lighter. It is more completely dehydrated. It dries solidly. It polymerizes rapidly. It replaces China Wood Oil more successfully in a wider variety of formulations.

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For those who wish to try Synthenol, sample drum lots are available. For information write the Kellogg Technical Service Department at Buffalo, or ask nearest Kellogg representative.

AMERICAN

ELDROL

WHITE
MINERAL OILS

U. S. P. AND TECHNICALS
PETROLATUMS

•

PETROLATUMS

U. S. P.

Extra White
Snow White
Lily White
Cream White
Golden Amber
Extra Light Amber
Light Amber
Amber

•

U. S. P.
AND
TECHNICAL WHITE OILS

All products are guaranteed as to quality and uniformity. Specific information and experimental samples furnished on inquiry.

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PENNSYLVANIA OIL PRODUCTS
REFINING COMPANY

WARREN PENNSYLVANIA

P

Papain, powd., cs.....lb. 1.50 - 1.60
Paprika, Hungarian, extra fancy, bgs..lb. .33 - .34
medium, bgs.....lb. .29½- .30
Portuguese, extra fancy, bgs.lb. .31½- .32
fancy, bgs.....lb. .30½- .31
Spanish, extra fancy, cs.....lb. .36 - .37
Parachlorophenol, dms.....lb. .32 - —
Paracymene, refd., dms.....gal. .75 - 1.25
Paradichlorobenzene, dms., c.l.lb. .11 - .12
l.c.l. .....lb. .12½- .15½
Paraffin, crude, scale, white 122-124 A.m.p., bgs., c.l., Okla., refy..lb. .06½- .06¾
bbls., c.l., N.Y.....lb. .07 Nom.
124-126 A.m.p., bgs., c.l., Okla., refy..lb. .06¾- .06⅞
bbls., c.l., N.Y.....lb. .07 Nom.
yellow, 124-126 A.m.p., bbls., c.l., N.Y..lb. .07 Nom.
fully refd., slabs, 123-125 A.m.p., bgs., c.l..lb. .0660- —
loose, c.l.....lb. .0625- —
125-127 A.m.p., bgs., c.l..lb. .0675- —
loose, c.l.....lb. .0640- —
128-130 A.m.p., bgs., or loose, c.l..lb. .0680- —
131-133 A.m.p., bgs., or loose, c.l..lb. .0705- —
133-135 A.m.p., bgs., or loose, c.l..lb. .0730- —
135-137 A.m.p., bgs., or loose, c.l..lb. .0755- —
138-140 A.m.p., bgs., or loose, c.l..lb. .0830- —
143-145 A.m.p., bgs., or loose, c.l..lb. .0925- —
151-153 A.m.p., bgs., or loose, c.l..lb. .70 Nom.

Refined paraffin prices in cases are 1½c. lb. higher than bags price; solid in tankcars is 5c. lower.

match, A.m.p. up to and incl. 110-112 bbls. c.l..lb. .05¼ Nom.
semirfd., solid., 122-124 A.m.p., bgs..lb. .06½ Nom.
Paraformaldehyde, dms., 1,000 lbs. or more shipments, f.o.b. Perth Amboy, Philadelphia, or N.Y.C..lb. .34 - —
100 to 900 lbs. shipments, same basis..lb. .35 - —
Paraldehyde, tech., 99%, 55 and 100 gal. dms., c.l., works. lb. .10 - —
l.c.l., works.....lb. .11¼- —
5 and 10-gal. dms., works..lb. .15 - —
USP. cs., cbys.....lb. .37 - .45
Paranisidine, dms.....lb. .75 - —
Paranitroanilin, kgs., works...lb. .47 - —
Paranitrochlorobenzene, kgs....lb. .15 - —
Paranitrophenol, kgs.....lb. .35 - —
Paranitrotoluene, kgs.....lb. .30 - —
Paraphenylenediamine, bbls....lb. 1.25 - 1.30
Paratoluenesulphonamide, bbls.lb. .70 - —
Paratoluidin, bbls.....lb. .48 - —
Pareira brava root, bls.....lb. .21 - .22
Paris green, dealer, dms., bbls., c.l., f.o.b. works, frt. alld. lb. .23 - .25
less car lot, same basis.lb. .24 - .26
Passion flower, herb, bls.....lb. .07 - .08
Patchouli leaves, bls.....lb. .28 - .30
Pellitory root, bls.....lb. .28 - .29
Pennyroyal leaves, bls.....lb. .15 - .16
Pentanes norm., 28-38°, dms., c.l., G.S..gal. .11½- —
l.c.l., G.S.....gal. .16 - —
tanks, G.S.....gal. .08½- —
laboratory grade, dms., c.l., G.S. gal. .14 - —
l.c.l., G.S.....gal. .25 - —
Pepper, black, Aleppey, bgs...lb. .08 - .08½
Lampong, bgs.....lb .0425- .0440
Tellicherry, bgs.....lb. .08 - .08½
Red, chillies, Japan, Hontaka. lb. .20½- .21
Mombassa, bgs.....lb. .40 - .41
White, Java, Muntok, bgs...lb. .07¾- .08¼
Saigon, bgs.....lb. .07½- .08
Peppermint leaves, dom., bls..lb. .35 - .36
import, bls.....lb. .45 - .50
Perchlorethylene, dms., c.l., works, frt. alld., zone 1..lb. .08 - —
l.c.l., same basis.....lb. .08½- —
Zone 2, dms., c.l., works, frt. alld..lb. .08½- —
l.c.l., same basis.....lb. .09 - —
Zone 3, dms., c.l., works, frt. alld..lb. .09 - —
l.c.l., same basis.....lb. .09½- —
Zone 4, dms., c.l., f.o.b. stock points..lb. .09 - —
l.c.l., same basis.....lb. .09½- —

All prices on perchlorethylene are frt. alld. with the exception of zone 4, in which case the prices indicated are based on f.o.b. L. A., Cal., S. F., Cal., Portland, Ore., and Seattle, Wash. Zone 1 includes the following States:—Conn., Md., N. Y., Va., Ky., Me., N. J., Vt., W. Va., Mo., N. H., Tenn., Ind., Ia., Pa., R. I., Ill., Mich., Minn., Wis., Del., Mass., N. C., O., Omaha, Neb., Kansas City, Kansas. Zone 2 includes Ala., Kan., except Kansas City, N. D., Ga., Neb., except Omaha, S. D., Miss., Ark., S. C., La., Okla., and Fla. Zone 3 includes Colo., N. M., Wyo., Texas and Eastern Montana. Zone 4 includes Arizona, Western Montana, Idaho, Ore., Nev., Wash., Utah and Cal.

Peru, balsam dms.....lb. 1.10 - 1.15
Petrolatum, amber, dms., c.l..lb. .04 - —
l.c.l. .....lb. .05 - —
amber, extra, dms.....lb. .04¼- —
l.c.l. .....lb. .05¼- —
veterinary, dms., c.l.....lb. .03⅞- —
white, cream, dms., c.l.....lb. .06 - —
l.c.l. .....lb. .07½- —
lily, dms., c.l.....lb. .07 - —
l.c.l. .....lb. .08½- —
snow, dms., c.l.....lb. .08 - —
l.c.l. .....lb. .09½- —
Petroleum, crude, bulk, at wells:—
California .....bbl. .63 - 1.75
Canada .....bbl. 2.10 - 2.17
Central West:—
Illinois .....bbl. .53 - 1.00
Lima .....bbl. .90 - —
Michigan .....bbl. .82 - 1.02
Princeton .....bbl. 1.05 - —
East Texas.....bbl. 1.10 - —
Gulf Coast.....bbl. .74 - 1.41
Kentucky, Tennessee.....bbl. 1.02 - 1.10
Louisiana, Arkansas.....bbl. .73 - 1.20
Mexico .....bbl. No prices
Midcontinent:—
North Texas.....bbl. .51 - 1.10
Oklahoma-Kansas .....bbl. .58 - 1.10
Pennsylvania, Ohio, West Virginia:—
Bradford-Allegany ....bbl. 2.75 - —
Corning .....bbl. 1.17 - —
Pennsylvania grade, in Buckeye lines..bbl. 1.70 - —
Eureka lines.....bbl. 2.34 - —
N. Y. Transit lines, bbl. 2.75 - —
S. W. Penn lines...bbl. 2.40 - —
lower district in National Transit lines.bbl. 2.63 - 2.75
Petroleum, crude, bulk, at wells, Rocky Mountain..bbl. .51¼- 1.30
South Central and Southwestern Texas..bbl. .73 - 1.27
Texas Panhandle.....bbl. .67 - .96
West Texas.....bbl. .53 - .95
Ether, 30-60° dms., c.l., G.3, gal. .14½- —
l.c.l., G.3.....gal. .25½- —
tanks, G.3.....gal. .13½- —
35-60°, dms., l.c.l., G.3....gal. .30½- —
40-75°, dms., c.l., G.3....gal. .14½- —
l.c.l., G.3.....gal. .25½- —
tanks, G.3.....gal. .13½- —
laboratory grade, dms., c.l., G.3..gal. .14½- —
c.l., G.3.....gal. .25½- —
10-gal. lots, G.3.....gal. .50½- —
Lacquer, diluent, at refinery:—
California, 100 i.b.p., 200 e.p., tanks, delvd. Los Angeles..gal. .11 - —
San Francisco..gal. .11½- —
f.o.b. Richmond...gal. .11 - —
Willbridge, Ore., Ft. Wells, Wash..gal. .12 - —
East Coast, tanks.....gal. .09½- .10
Group 3, toluol type, tanks.. gal. .07⅞- —
benzol type, tanks.....gal. .08⅜- —
Naphtha, cleaners', at refinery:—
East Coast, tanks.....gal. .09 - .10½
Group 3, tanks.....gal. .06¾- .07
tankwagon, Boston, ex tax. gal. .13½- —
Bridgeport .....gal. .13½- —
Chicago, inc. 4c. tax..gal. .18 - —
Decatur, inc. 4c. tax..gal. .1910- —
Des Moines, inc. 4c. tax, gal. .1890- —
Evansville, inc. ex tax.gal. .15 - .16
Milwaukee, inc. 5c. tax, gal. .2080- —
Minneapolis-St. Paul, inc. 5c. tax..gal. .20½- —
Newark, ex tax.....gal. .10½- —
New York, ex tax.....gal. .10½- —
Omaha, ex tax.....gal. .1490- .1590
Oklahoma City, ex tax.gal. .16½- —
Philadelphia, ex tax...gal. .12 - —
St. Louis, inc. 1c. tax.gal. .15½- —
Syracuse, 150 gals.....gal. .14½- —
smaller lots, galv. drums, gal. .10 - —
milk cans.....gal. .21 - —
high-solvency, aromatic, No. 1, over 70% arom., tanks, f.o.b. Bayway..gal. .18 - —
2, over 90% arom., same basis..gal. .19 - —
3, same basis.....gal. .20 - —
8, tanks, f.o.b. Paulsboro, N. J..gal. .15½- —
30, same basis.....gal. .16½- —
40, same basis.....gal. .16½- —
v.m.&p., at refinery:—
California, 46.5, 254 i.b.p., 380 e.p., tanks, f.o.b. El Segundo..gal. .11 - —
Richmond..gal. .11½- —
Willbridge, Ore., Ft. Wells, Wash..gal. .12 - —
54-57, 190 i.b.p., 310 e.p., tanks, dlvd. Los Angeles, gal. .10 - —
San Francisco....gal. .10½- —
Portland, Seattle.....gal. .11 - —
East Coast, tanks.....gal. .09½- —
Group 3, tanks.....gal. .06¾- .07
tankwagon, Boston, ex tax, gal. .14½- —
Chicago, inc. 4c. tax..gal. .17 - —
Des Moines, inc. 4c. tax.gal. .1890- —
Decatur, inc. 4c. tax..gal. .1910- —
Evansville, Ind., ex tax, gal. .1520- .1620
Milwaukee, inc. 5c. tax.gal. .2030- —
Minneapolis-St. Paul, inc. 5c. tax..gal. .20 - —
Newark, ex tax.....gal. .11½- —
New York, ex tax.....gal. .10½- —
Omaha, ex tax.....gal. .1490- .1590
Philadelphia, ex tax...gal. .13 - —
St. Louis, inc. 1c. tax.gal. .1570- —
Solvent, rubber, at refinery, East Coast, tanks..gal. .09½- —
Group 3, light, 120 i.b.p., 250 e.p., tanks..gal. .06¾- .07
standard, 180 i.b.p., 288 e.p., tanks..gal. .06¾- .07
Stoddard (CS 3-38), at refinery:—
East Coast, tanks.....gal. .08¾- .09½
Group 3, tanks.....gal. .06¾- .06½
tankwagon, Boston, ex tax, gal. .14 - —
Chicago, inc. 4c. tax..gal. .1640- —
Decatur, inc. 4c. tax..gal. .1860- —
Des Moines, inc. 4c. tax.gal. .1840- —
Evansville, Ind., ex tax.gal. .14 - .15
Milwaukee, inc. 5c. tax.gal. .1980- —
Minneapolis-St. Paul, inc. 5c. tax..gal. .1820- —
Newark, ex tax.....gal. .09½- —
New Orleans, ex tax...gal. .11 - —
New York, ex tax.....gal. .09½- —
Omaha .....gal. .1360- .14½
Philadelphia, ex tax...gal. .13 - —
St. Louis, inc. 1c. tax..gal. .1340- —
Tulsa, ex tax.....gal. .10½- .11½
Thinners, at refinery:—
California, 34, 325 i.b.p., 390 e.p., low anilin, 6,000 gal. tanks or transport trucks, f.o.b. Los Angeles..gal. .15 - —
Portland, Ore.....gal. .16 - —
Richmond .....gal. .14½- —
Seattle, Wash.....gal. .16½- —
44, 311 i.b.p., 385 e.p., tanks, f.o.b. Point Wells, Wash.; Willbridge, Ore..gal. .10½- —
Richmond .....gal. .10 - —
Southern Calif....gal. .09½- —
200 i.b.p., 300 e.p., f.o.b. El Segundo..gal. .11 - —
Portland, Ore.....gal. .12 - —
Richmond .....gal. .11½- —
Seattle, Wash....gal. .12 - —
East Coast, 43-47, tanks.gal. .08¾- .09½
47-49, tanks.....gal. .10½- —
New Jersey, tanks.....gal. .09 - —
Group 3, tanks.....gal. .05¾- .06
tankwagon, tax included:—
Albany .....gal. .13½- —
Baltimore (100 gals.)..gal. .14 - —
25-99 gals.....gal. .16 - —
Boston .....gal. .13½- —
Bound Brook, North Amboy, N. J..gal. .13½- —
Bridgeport, Conn.....gal. .11½- —
Buffalo .....gal. .15½- —
Camden, N. J.....gal. .10 - .11½
Chicago .....gal. .1670 - —
Decatur .....gal. .1810 - —
Des Moines.....gal. .1790 - —
Evansville, Ind.....gal. .1420 - .1520
Milwaukee .....gal. .1930 - —
Minneapolis-St. Paul...gal. .19½- —
Newark .....gal. .09½- —
New York (200 gals.)..gal. .09½- —
Omaha .....gal. .1360- .1460
Philadelphia .....gal. .12½- —
Pittsburgh .....gal. .11½- .13½
Providence .....gal. .12 - —
Rochester .....gal. .12½- —

Petroleum, thinners, tankwagon, tax included, St. Louis, gal. .1470- —
Syracuse ..... gal. .13 - —
Trenton ..... gal. .10½ - —
Wilmington, Del. ..... gal. .12½ - —
Phenobarbital, 5-lb. bots. ..... lb. 3.95 - —
bots. or cns., 100 lbs., spot or contract.. lb. 3.60 - —
25-lb. cns. ..... lb. 3.85 - —
Phenol, USP, dms., c.l., works, frt. equald.. lb. .13 - —
l.c.l., same basis. ..... lb. .13¾- —
under 1,000 lbs. ..... lb. .14¾- —
tanks, works. ..... lb. .12 - —
Phenolphthalein, USP, bbls., dms., 2,000-lb. lots.. lb. .85 - —
bbls., dms., kegs, 100-250 lbs., lb. .87 - .89
yellow, fib. dms., 2,000-lb. lots, lb. .80 - —
100-lb. fib. dms. ..... lb. .82 - —
25-lb. dms. ..... lb. .87 - —
50-lb. kgs. ..... lb. .84 - —
Phenyl chloride, dms. ..... lb. .17 - —
Phenylacetaldehyde, bots. ..... lb. 2.10 - 2.50
Dimethylacetate, cns. ..... lb. 14.50 -15.00
Phenyl ethyl acetate, cns. ..... lb. 2.45 - 2.50
Phenylethyiphenyl acetate, bots., lb. 7.90 -15.50
Phenylhydrazine, base, CP, bots., lb. 4.00 - —
Hydrochloride, CP, bots., works.. lb. 4.00 - —
commercial, kgs., works... lb. 1.50 - —
pure, bbls., works. ..... lb. 2.25 - —
Phloroglucinol, CP, tins, works. lb. 20.00 -22.00
tech., tins, works. ..... lb. 15.00 -16.50
Phosphate rock, Fla., high-grade, hard, 77% basis, 76% min., bulk, mines..long ton. 4.35 - —
land pebble, 68% min., bulk, mines..long ton. 1.90 - —
70% min., bulk, mines, long ton. 2.15 - —
72% min., bulk, mines, long ton. 2.40 - —
75% basis, 74% min., bulk, mines..long ton. 2.90 - —
Tenn., 72% bulk, mines, long ton. 4.50 - —
75% bulk, mines..long ton. 5.50 - —
Phosphorus, red, cs. ..... lb. .40 - .44
yellow, dms. ..... lb. .18 - .20
cases ..... lb. .23 - .28
Oxychloride, cyls. ..... lb. .15 - .19
Pentoxide, dms., c.l., works.. lb. .11 - .12
l.c.l., dms., works. ..... lb. .13 - .14
Sesquisulphide, cs. ..... lb. .38 - .42
Trichloride, cyls. ..... lb. .15 - .16
Phthalamide, bbls., works, tons, lb. .35 - —
single bbls., works. ..... lb. .40 - —
kgs., works. ..... lb. .45 - .50
Phthalic anhydride, bbls., c.l., works, frt. alld., E. of Miss R.. lb. .14¼- —
l.c.l., same basis. ..... lb. .15¼- —
Pichi leaves, bgs. ..... lb. .15 - .16
Pilocarpine hydrochloride, bots., vls..oz. 4.00 - 4.25
Nitrate, bots., vls. ..... oz. 3.90 - 4.15
Pimento, bgs. ..... lb. .16 - .16½
Pinkroot, bls. ..... lb. .40 - .41
Pitch, Burgundy (see B).
Coaltar, 160° m.p., bbls., c.l., works..ton. 19.00 - —
l.c.l. ..... ton. 22.00 - —
Hardwood, 1-time, dms., c.l., dlvd. Akron..ton. 23.75 -24.00
Linseed, dms. ..... lb. .05 - .05¼
Petroleum (see Asphaltum, Mexican, Texas)
Pine, bbls ..... bbl. 6.00 - 6.50
Plaster of Paris (see Gypsum).
Pleurisy root, Southern, bls... lb. .12 - .13
Podophyllin, dms., dlvd., E. of Miss.. lb. 4.50 - 4.70
Poke root, bls. ..... lb. .07 - .07½
Pomegranate bark, bgs. ..... lb. .52 - .53
Root bark, bgs. ..... lb. .47 - .48
Poppy flowers, red, bls. ..... lb. 1.00 - 1.15
Seed, Dutch, bgs. ..... lb. .13½- .14
Hungarian, bgs. ..... lb. .14 - .14½
Potash abietate. ..... lb. .08 - —
Acetate, tech., bbls., dlvd... lb. .26 - —
kgs., dlvd. ..... lb. .28 - —
USP, bbls., 250 lbs. ..... lb. .28 - —
kgs., 100 lbs. ..... lb. .30 - —
cns., 25 lbs. ..... lb. .33 - —
Arsenite, USP, solut., cbys., 100 lbs..lb. .11 - —
demj., 50 lbs. ..... lb. .12 - —
Bicarbonate, USP, cryst., bbls., 300 lbs..lb. .15 - —
kgs., 100 lbs. ..... lb. .17 - —
gran., bbls., 250 lbs. ..... lb. .15 - —
kgs., 100 lbs. ..... lb. .17 - —
Bichromate, spot, c.l., works, lb. .08¾- —
6 casks or 10 bbls., or over, works..lb. .09 - —
5 casks or 9 bbls., or less, works..lb. .09¼- —
Bromide, USP, gran., bbls., 500 lbs..lb. .31 - —
fib., dms., 100 lbs. ..... lb. .32 - —
Carbonate, calc., dms., c.l., works..lb. .06½- —
l.c.l., same basis. ..... lb. .06¾- —
hydrated, 83-85%, bbls., c.l., works..lb. .03½- —
l.c.l., same basis. ..... lb. .03¾- —
liquid, dms., c.l., works, frt. alld..lb. .03 - —
l.c.l., dms., same basis. lb. .03125- —
tanks, same basis. ..... lb. .0275- —
USP, gran., bbls., 325 lbs..lb. .13½- —
powd., bbls., 325 lbs. ..... lb. .19 - —
kgs., 100 lbs. ..... lb. .21 - —
Caustic, flake, 88-92%, dom., c.l., works..lb. .07 - —
l.c.l. ..... lb. .07¼- .07½
import, dms. ..... lb. No prices
liquid, 45% basis, dms. ..... lb. .03½- .03¾
tanks ..... lb. .02½- —
solid, 88-92%, dom., dms., c.l., works..lb. .06¼- —
l.c.l. ..... lb. .06½- .06¾
import, dms. ..... lb. No prices
Chlorate, cryst., kgs. ..... lb. .10½- .13
gran., kgs. ..... lb. .12 - .14½
powd., kgs. ..... lb. .10 - .12½
Chloride, tech., 98%, cryst., bgs., kgs..lb. .04 Nom.
Chromate, kgs. ..... lb. .24 - .27
Citrate, USP, gran., bbls., 250 lbs..lb. .33½- —
kgs., 100 lbs. ..... lb. .34½- —
cns., 50 lbs. ..... lb. .35½- —
cns., 25 lbs. ..... lb. .37½- —
Cyanide, cns., dms. ..... lb. No prices
Cyanide, gold, 11% gold, bots., works..oz. 14.20 -14.45
Glycerophosphate, 75% sol., dms., 1,000-lb lots... lb. 1.00 - —
100-lb. lots. ..... lb. 1.10 - —
50-lb. lots, cbys, or cns. lb. 1.15 - —
25-lb. lots, cns. ..... lb. 1.25 - —
Potash, Guaiacolsulphonate, fib., dms., 100-lb. lots..lb. 1.60 - 1.65
cns., 25 lbs. ..... lb. 1.75 - —
Hydroxide, USP, sticks, cns... 100 lbs. .30½- .32
Hypophosphite, cns., 100 lbs..lb. .72 - —
25 to 50 lbs. ..... lb. .75 - —
Iodate, bots., 5 lbs. ..... lb. 3.31 - 3.35
cns., 25 lbs. ..... lb. 3.20 - —
Iodide, bbls., 250 lbs. ..... lb. 1.35 - —
bots., or cns. ..... lb. 1.44 - 1.70
dms. ..... lb. 1.35 - 1.38
Kainit, 20%, K_2O, bulk, ex-vessel, Atlantic or Gulf ports..ton. 12.25 - —
Manure salt, dom., run of mine, approx. 30%, K_2O, bulk, c.i.f. ports..unit-ton. .58½- —
import, 30%, K_2O, bulk, ex-vessel, Atlantic or Gulf ports..ton. 17.55 - —
Metabisulphite, kgs. ..... lb. .18 - .20
Muriate, dom., all strengths, min., 50% K_2O, bulk, unit-ton. .53½- —
Import, all strengths, min. 80% KCl, basis 50% K_2O, bulk, ex-vessel, Atlantic or Gulf ports..ton. 26.75 - —
basis 60% K_2O, bulk, ex-vessel, Atlantic or Gulf ports, ton. 32.10 - —
Potash muriate prices in bags are $2 per ton higher than bulk price.
Oxalate, pure, cryst., kgs. ..... lb. .30 - .31
tech., bbls. ..... lb. .25 - .26
Nitrate, crude, bgs., c.i.f. ports, ton. 55.00 Nom.
Perchlorate, kgs., works. ..... lb. .09½- .11
Permanganate, tech., dms... lb. .18½- .19
Prussiate, red, bbls. ..... lb. .38 - .45
Yellow, bbls. ..... lb. .15 - .16
Ricinoleate, tech., bbls. ..... lb. .13 - —
Silicate alkaline, lump, bgs.. lb. .07 - —
Sulphate, NF, cryst., bbls., 400 lbs..lb. .18 Nom.
kgs., 100 lbs. ..... lb. .20 - —
powd., bbls., 350 lbs. ..... lb. .19 Nom.
kgs., 100 lbs. ..... lb. .21 - —
tech., 90-95%, min. 90%, bgs., ex-vessel, Atlantic or Gulf ports..ton. 36.25 - —
Xanthate, dms., c.l. ..... lb. .13 - —
l.c.l. ..... lb. .13½- —
Potash-magnesia sulphate, 48-53%, min. 48%, bgs., shipt., ton. 24.75 - —
Potash titanium oxalate, 350-lb. bbls..lb. .40 - —
100-lb. dms. ..... lb. .45 - —
Prickly ash bark, bls. ..... lb. .15 - .16
Berries, bgs. ..... lb. .30 - .35
Prince's pine herb, bls. ..... lb. .15 - .17
Propane, tanks, Group 3. ..... gal. .03¾- .04
Psyllium seed (see Fleaseed).
Pulsatilla, bls. ..... lb. .30 - .32
Pumice stone, Italian, Amer.-grd., 4F, 3F, 2F, 1½F, and coarser, bbls., 3 or over, works..lb. .03½- —
less than 3, works. ..... lb. .04½- —
F and 1, bbls., 3 or over, works..lb. .04 - —
less than 3, works. ..... lb. .04½- —
O, O-½, O-¾, and ⅛, bbls., 3 or over, works. ..... lb. .04½- —
less than 3, works. ..... lb. .04½- —
Ital.-grd., bgs., c.l., shipt. ex dock, N. Y..ton. 39.00 Nom.
l.c.l., 5-29 tons, ex whse., ton. 44.00 Nom.
1,000-10,000 lbs., ex whse..ton. 46.00 Nom.
2 bgs., to 1,000 lbs., ex whse, ton. 48.00 Nom.
single bgs., ex whse. ton. 60.00 Nom.
Pumpkin seed, bgs. ..... lb. .10 - .11
Purple lake (see Red).
Putty, com'l, dms. ..... 100 lbs. 6.00 - —
linseed oil, raw, dms. ..... 100 lbs. 4.50 - —
refined, dms. ..... 100 lbs. 5.00 - —
standard, dms. ..... 100 lbs. 3.95 - —
Pyrethrum concentrate, liq. (20 to 1), basis 2.4% pyrethrin (Seil test) 55-gal. dms. (incl.) frt. alld., or dlvd., on 15 gls., or more, standard brand, odorless..gal. 7.15 - 7.50
(30 to 1) 3.6% pyrethrin, 55-gal. dms. (incl.) frt. alld., or dlvd., on 15 gals., or more, standard brand, odorless..gal. 10.65 -11.00
Pyrethrum flowers, coarse, grnd. (g.d.p.) Japan, bgs., frt. alld., 15 tons or over..lb. .33 - .36
fine powd. Japan, bbls., ton lots frt. alld..lb. .35 - .37
Pyridin, denaturing, dms.... gal. 1.71 - —
refd., 2°, dms. ..... lb. .51 - —
Pyrites, Spanish, bulk, c.i.f. Atl. ports..unit-ton. .12-.13 Nom.
Pyrocatechin, CP, cryst., works, fib., dms., tins..lb. 2.15 - 2.40
resublimed, fib. dms., tins..lb. 4.60 - —
Pyrophyllite, standard, 200 mesh., c.l., mines..ton. 9.00 - —
325 mesh, same basis.... ton. 12.00 - —
No. 3, 200 mesh, c.l. mines. ton. 7.50 - —
325 mesh, same basis.... ton. 10.50 - —
Pyroxylin scrap, amber, cs., works..lb. .12 - —
black, cs., works. ..... lb. .10 - —
China white, ivory, cs., works, lb. .13 - —
dense white, cs., works..lb. .10 - —
gray, cs., works. ..... lb. .08 - —
mixed, mottles, opaque, cs., works..lb. .04 - —
shell-demi, cs., works.... lb. .12 - —
translucent pastels, cs., works..lb. .10 - —
transparent, cs., works..lb. .20 - —
colors, cs., works. ..... lb. .12 - —
shavings, amber, cs., works..lb. .16 - —
colors, mixed, cs., works..lb. .10 - —
white, cs., works. ..... lb. .15 - —

Q

Quassia chips, bls. ..... lb. .05 - .06
Quebracho extract, liquid, 35% tan, bbls., works..lb. .04 - —
tanks, works. ..... lb. .03½- —
solid, 63%, bgs., c.l., ex dock, plus duty..lb. .04½- —
clarified, 64%, bgs., c.l., same basis..lb. .04¾- —
Queen of the meadow leaves, bgs..lb. .07 - .08
Root, bgs. ..... lb. .10 - .11
Quercitron, extract, liquid, 51°, bbls..lb. .08½- .09½
solid, dms. ..... lb. .11 - .16½
Quicksilver, dom., flasks (76 lbs. net, dlvd. N.Y..flasks. 175.00 -180.00
European, flasks (76 lbs. net), port of origin, in bond..flask. 200.00 - —
ex store. ..... flask. 207.00 - —
Quince seed, bgs. ..... lb. 1.00 - 1.25
Quinidine, cryst., small, cns..oz. 1.01 - —
large, cns. ..... oz. 1.03 - —
powd., precip., cns. ..... oz. .96 - —
Sulphate, cns. ..... oz. .69 - —
Subject to surcharge of 4c. per oz.; see note
Quinine, 100 ozs., cns. ..... oz. .80 - —
under Quinine.
Acetate, cns. ..... oz. 1.02 - —
Arsenate, cns. ..... oz. .95 - —
Arsenite, cns. ..... oz. 1.04 - —
Bisulphate, cns. ..... oz. .58 - —
Citrate, cns. ..... oz. .75 - —
Dihydrobromide, bots. ..... oz. .78 - —
Dihydrochloride, bots. ..... oz. .79 - —
Ethylcarbonate, cns. ..... oz. .80 - —
Ferrocyanide, cns. ..... oz. 1.04 - —
Formate, cns. ..... oz. .97 - —
Glycerophosphate, cns. ..... oz. 1.17 - —
Hydrochloride, cns. ..... oz. .72 - —
Hydrochlorosulphate, cns.... oz. .79 - —
Hydroiodide, cns. ..... oz. 1.02 - —
Hypophosphite, cns. ..... oz. 1.03 - —
Phosphate, cns. ..... oz. .86 - —
Salicylate, cns. ..... oz. .76 - —
Sulphate, USP, X, cns. ..... oz. .57 - —
USP, XI, cns. ..... oz. .64 - —
Sulphocarbolate, cns. ..... oz. 1.03 - —
Tannate, cns. ..... oz. .60 - —
Tartrate, cns. ..... oz. 1.00 - —
Valerate, cns. ..... oz. .96 - —
Quinine buyers must pay a surcharge of 4c. per oz. to cover present war risk insurance, ocean freight rates, and additional expenses over the cost of usual business. Changes in these controlling factors will be reflected in the surcharge invoiced.
Quinine-urea hydrochloride, cns. oz. .78 - —
Subject to surcharge of 4c. per oz.; see note under Quinine.

R

R, salt, dry, bbls. ..... lb. .55 - —
paste, dms. ..... lb. .52 - —
Rapeseed, Belgian, bgs. ..... lb. .07½- .08
Dutch, black, bgs. ..... lb. .08 - .08½
red, bgs. ..... lb. .12 - .12½
Japanese, bgs. ..... lb. .06¾- .07
Raspberries, dried, bls. ..... lb. .65 - .70
Red, alizarin lake, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis..lb. 1.10 - 1.90
Red, Alizarin lake prices are ½c. higher dlvd. Ala., Fla., Ga., Ia. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Tex. (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; ½c. higher dlvd. Pac. Coast for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.
Cadmium, lithopone, deep shade, bbls., ton lots, works, frt. alld..lb. .90 - —
smaller lots, same basis. lb. .95 - —
kgs., ton lots, same basis. lb. .95 - —
smaller lots, same basis. lb. 1.00 - —
light shade, bbls., ton lots, same basis..lb. .75 - —
smaller lots, same basis. lb. .80 - —
kgs., ton lots, same basis. lb. .80 - —
smaller lots, same basis. lb. .85 - —
light-medium shade, bbls., ton lots, same basis..lb. .80 - —
smaller lots, same basis. lb. .85 - —
kgs., ton lots, same basis. lb. .90 - —
smaller lots, same basis. lb. .90 - —
maroon shades, bbls., ton lots, same basis..lb. 1.00 - —
smaller lots, same basis. lb. 1.05 - —
maroon shades, kgs., ton lots, same basis..lb. 1.05 - —
smaller lots, same basis. lb. 1.10 - —
medium shade, bbls., ton lots, same basis..lb. .85 - —
smaller lots, same basis. lb. .90 - —
kgs., ton lots, same basis. lb. .90 - —
smaller lots, same basis. lb. .95 - —
Selenide, bbls., dark, works..lb. 2.50 - —
light, works. ..... lb. 2.25 - —
orange, bbls., 100-lb lots, works..lb. 1.50 - —
Carmine, 40 1-lb. cns., 500 lbs. lb. 5.00 - —
dms., 500-lb. lots. ..... lb. 4.85 - —
100-lb. lots. ..... lb. 4.95 - —
Crocus martis (see Red, purple oxide).
Eosin toner, bbls. ..... lb. 1.25 - —
Indian, pure, bbls., f.o.b. Bethlehem, Easton, E. St. Louis, N. Y.. .08¾- —
80%-85%, bbls., same basis. lb. .07¼- —
Iron oxide (see Red oxide).
Lake C toner, bbls., same basis alizarin lake, contracts. lb. 1.10 - —
open order. ..... lb. 1.15 - —
Lithol toner, bbls., same basis, alizarin, lake, contrs... lb. .55 - —
open order. ..... lb. .60 - —
Rose lake, bbls. ..... lb. .20 - .23
Pink, bbls. ..... lb. .15 - .20
Lithol-rubine toner, bbls., same basis alizarin lake..lb. 1.35 - —
Maroon lake, 25%, kgs., same basis alizarin lake contracts. lb. .40 - —
Oxide (see Red, purple oxide).
Mercury oxide, tech., dom., bbls. lb. 2.41 - —
Metallic, bbls., Pa., works... lb. .02 - —
Orange, Persian (see O).
Oxide, pure, bbls., c.l., works. lb. .08½- —
l.c.l., works. ..... lb. .09¼- —
shell, dom., cs., works. ..... lb. .12 - —
reduced, 85% copperas oxide, bbls., l.c.l., f.o.b. Bethlehem, Easton, E. St. Louis, New Castle, N. Y.. ..... lb. .08¼- —
80% copperas oxide, bbls., same basis..lb. .07¾- —
Para, toner, concent., kegs., same basis alizarin lake, contracts..lb. .70 - —
open order. ..... lb. .75 - —
Persian, Gulf, oxide, bbls., l.c.l., f.o.b. Bethlehem, Easton, N.Y. lb. .04⅞- —
ex whse., Chicago, St. Louis..lb. .05¼- —
San Fran., Los Ang., Portland, Seattle..lb. .05⅝- —

Pet. Thinners—Shellac

Red, phloxin toner (see Red, Eosin toner)
Phosphotungstic rhodamine Y, kgs..lb. 3.90 - —
Purple lake, kgs. ..... lb. .60 - 1.00
Oxide, bbls., f.o.b. Bethlehem, Easton, E. St. Louis..lb. .03 - —
Toner, kgs. ..... lb. 1.50 - 2.00
Scarlet ink toner, kgs., same basis alizarin lake..lb. .50 - —
Lake, kgs., same basis alizarin lake..lb. .25 - .30
Spanish, oxide, bbls., f.o.b. N.Y. lb. .03¾- —
Toluidine toner, kgs., same basis alizarin lake..lb. 1.20 - —
Tuscan, bbls., f.o.b. N. Y., E. St. Louis..lb. .11 - .40
Venetian, bbls., works. ..... lb. .0220- —
10%, bbls., works. ..... lb. .0245- —
15%, bbls., works. ..... lb. .0265- —
20%, bbls., works. ..... lb. .02¾- —
25%, bbls., works. ..... lb. .03 - —
30%, bbls., works. ..... lb. .03¼- —
35%, bbls. works. ..... lb. .0360- —
40%, bbls., works. ..... lb. .04 - —
Vermilion, Amer., bbls., same basis alizarin lake..lb. .15 - —
quicksilver, bbls., 5 tons..lb. No prices
smaller lots. ..... lb. 2.46 - 2.55
Red dyes are listed under Dyes.
Red precipiate, N. F., powd., fib. dms., 50 lbs. or more... lb. 2.66 - —
Red saunders wood, ground, bbls. lb. .12 - .17
Resorcinol, tech., dms., works. lb. .75 - .80
USP, cryst., bbls., works. ..... lb. 1.50 - 1.55
Rhatany root, bgs. ..... lb. .12 - .14
Rhodinol, bots. ..... lb. 5.55 -10.90
Rhubarb, bots. ..... lb. .55 - .60
powd., bbls., kgs. ..... lb. .60 - .65
Rochelle salt, cryst., bbls., 5,000 lbs., 1 ship't.. lb. .22¾- —
smaller lots. ..... lb. .23¼- —
powd., bbls., 5,000 lbs., 1 ship't.. lb. .21¾- —
smaller lots. ..... lb. .22¾- —
Rose flowers, pale, bls. ..... lb. .55 - .60
red, bls. ..... lb. 3.50 - 3.55
Rosemary, flowers, bls. ..... lb. .45 - .50
leaves, bls. ..... lb. .07 - .08
Rosin, gum, bbls., ex dock, 280 lbs. 5.75 - —
D, bbls. ..... 280 lbs. 6.00 - —
E, bbls. ..... 280 lbs. 6.30 - —
F, bbls. ..... 280 lbs. 6.40 - —
G, bbls. ..... 280 lbs. 6.60 - —
H, bbls. ..... 280 lbs. 6.70 - —
I, bbls. ..... 280 lbs. 6.70 - —
K, bbls. ..... 280 lbs. 6.75 - —
M, bbls. ..... 280 lbs. 6.80 - —
N, bbls. ..... 280 lbs. 6.80 - —
W. G., bbls. ..... 280 lbs. 6.90 - —
W. W., bbls. ..... 280 lbs. 7.45 - —
X, bbls. ..... 280 lbs. 7.45 - —
Rosin, wood, bbls. ..... 280 lbs. 4.60 - 6.25
Rottenstone, dom., bgs., c.l., f.o.b. mines..ton. 25.50 Nom.
l.c.l., f.o.b. mines. ..... ton. 37.50 Nom.
Rue, bls. ..... lb. .14 Nom.
import, lump, bbls. ..... lb. .08½- .10
powd., bbls. ..... lb. .80 - .85

S

Sabadilla seed, powd., bbls.... lb. .22 - .23
Saccharin, dms., 100 lbs. ..... lb. 1.45 - —
cns., 25 lbs. ..... lb. 1.48 - 1.50
Safflower, bls. ..... lb. .35 - .40
Saffron, Mexican, bls. ..... lb. .35 - .40
Spanish, tins. ..... lb. 35.00 -36.00
Sage, Dalmatian, stemless. ..... lb. .09¼- .09¾
garden, bls. ..... lb. .10¼- .10¾
Safrol, cns. ..... lb. .72 - .77
dms. ..... lb. .70 - .75
Sago flour, bgs. ..... lb. .04 Nom.
Salicin, bots., 5 lbs. ..... lb. 7.04 - —
cns., 25 lbs. ..... lb. 7.00 - —
Salol, gran., bbls., 200 lbs. ..... lb. .90 - —
bxs., 25 lbs. ..... lb. .93 - —
kgs., 100 lbs. ..... lb. .90 - —
powd., fib. dms., 25 lbs. ..... lb. 1.03 - —
kgs., 100 lbs. ..... lb. 1.00 - —
Salt, rock, bgs., dlvd., N. Y.. ton. 13.20 -13.80
l.c.l., bgs., dlvd., N. Y.. ton. 15.00 -15.60
vacuum, common, fine, bgs., c.l., dlvd., N. Y.. ton. 15.30 - —
l.c.l., dlvd., N. Y. ..... ton. 16.60 -19.70
Saltcake, grd., dom., bbls., works, ton. 24.00 Nom.
bulk, works. ..... ton. 17.00 Nom.
import, bulk, c.i.f. ..... ton. 20.00 Nom.
Chrome (see Chrome cake).
Saltpeter, dbl., refined, cryst., 10-20 tons, bbls.. 100 lbs. 8.10 - 9.10
1-9 tons. ..... 100 lbs. 8.25 - 9.25
less than ton lots.. 100 lbs. 8.50 - 9.50
gran., bbls., 10-20 tons, 100 lbs. 7.10 - —
1-9 tons. ..... 100 lbs. 7.25 - —
less than ton lots.. 100 lbs. 7.50 - —
powd., bbls., 10-20 tons. 100 lbs. 8.10 - —
1-9 tons. ..... 100 lbs. 8.25 - —
less than ton lots.. 100 lbs. 8.50 - —
Santonin, cryst., cns. ..... kilo. 130.00 -132.00
Saponin, crude, cns. ..... lb. 1.45 - —
purified, bots., 5 lbs. ..... lb. 1.65 - —
cns., 25 lbs. ..... lb. 1.50 - —
Sarsaparilla root, Honduras, bls. lb. .40 - .41
Mexico, bls. ..... lb. .17 - .18
Sassafras, bark, ord., bls. ..... lb. .13 - .14
select, bls. ..... lb. .20 - .21
Savory, bbls. ..... lb. .15 - .16
Saw palmetto berries, bgs. ..... lb. .08 - .09
Scammony root, bgs. ..... lb. .07 - .09
resin., lump, cns. ..... lb. .85 - —
powd., bxs. ..... lb. .90 - —
Schaeffer's salt, bgs. ..... lb. .46 - —
Seidlitz mixture, bbls., 5,000 lbs., 1 shipm't.. lb. .17½- —
smaller lots. ..... lb. .18¼- —
kegs, 5,000 lbs., 1 shipm't.. lb. .18¼- —
smaller lots. ..... lb. .18⅝- —
Selenium, pwd., A, 10-lb. tins.. lb. 2.00 - —
100-lb. cases. ..... lb. 1.75 - —
Senega root, bls. ..... lb. .80 - .85
Senna leaves, Alexandria, half leaf, bls. ..... lb. .15 - .16
siftings, bgs. ..... lb. .14 - .15
Tinnevelly, No. 1, bls. ..... lb. .12 - .13
2 bls. ..... lb. .10 - .11
3 bls. ..... lb. .08½- .09
powd., bbls., bxs. ..... lb. .12 - .13
Pods, bls. ..... lb. .09 - .10
Serpentaria root, bls. ..... lb. .78 - .80
Shellac, bleached, bonedry, bbls., f.o.b., N. Y.. lb. .25 - .26
dlvd. Boston. ..... lb. .25½- .26½
Chicago ..... lb. .25¾- .26¾
Pacific Coast. ..... lb. .28 - .29
refd., bbls., f.o.b., N.Y. lb. .31 - .32
dlvd. Boston. ..... lb. .31½- .32½
Chicago ..... lb. .31¾- .32¾
Pacific Coast. ..... lb. .34 - .35
Garnet, bgs. ..... lb. .19 - .20
Orange, D.C., VSO., Diamond I, cases.. lb. .32 - .33

Shellac—Soda Hypophosphite

Shellac, superfine, bgs., f.o.b. Bost., N. Y.	lb.	.20	- .21
dlvd., Chicago	lb.	.20½	- .22½
Pacific Coast	lb.	.23	- .24
T.N., bgs., f.o.b. Bost., N. Y.,	lb.	.19	- .20
dlvd., Chicago	lb.	.19½	- .20½
Pacific Coast	lb.	.22	- .23
Varnish, Metro., area, orange, 5-lb. cut., bbls.	gal.	1.05	- 1.10
4½-lb. cut, bbls.	gal.	1.00	- 1.05
4-lb. cut, bbls.	gal.	.95	- 1.00
white, 5-lb. cut, bbls.	gal.	1.15	- 1.20
4½-lb. cut, bbls.	gal.	1.10	- 1.15
4-lb. cut, bbls.	lb.	1.05	- 1.10
Silica, amorph., dry-grd., 95-97%, 325 mesh, bgs. c.l., works.	ton.	17.00	- —
l.c.l., 2½ tons, works.	ton.	19.00	- —
smaller lots, works.	ton.	20.00	- —
wet-grd., 95-97%, 325 mesh, bgs., c.l., works.	ton.	19.00	- —
l.c.l., 2½ tons, works.	ton.	21.00	- —
smaller lots, works.	ton.	25.00	- —
400 mesh, bgs., c.l., works,	ton.	35.00	- —
l.c.l., 2½ tons, works.	ton.	36.50	- —
smaller lots, works.	ton.	38.00	- —
98-98%, 325 mesh, bgs., c.l., works.	ton.	20.00	- —
98-98%, 325 mesh, bgs., l.c.l., 2½ tons, works.	ton.	21.50	- —
smaller lots, works.	ton.	23.00	- —
90%, 325 mesh bgs., c.l., works.	ton.	22.00	- —
bgs., l.c.l., 2½ tons, works,	ton.	25.50	- —
smaller lots	ton.	27.00	- —
hard-quartz, 140 mesh, bgs., c.l., works	ton.	11.00	- —
l.c.l., works	ton.	16.00	- —
Silver, bullion	oz.	.34¾	- —
Govt. purchase, dom., metal,	oz.	.7111	- —
Govt. purchase, foreign metal,	oz.	.35	- —
cyanide, cns., 2,500 ozs	oz.	No prices	
1,000 ozs	oz.	No prices	
500 ozs	oz.	No prices	
80 to 100 ozs	oz.	No prices	
Nitrate, vis	oz.	26⅞	- —
Nucleinate, bots., cns., 480-oz. lots.	oz.	.30	- .31
Proteinate, bots., cns., 480-oz. lots.	oz.	.29	- .30
Simarubra bark, bls.	lb.	.33	- .45
Skatol, bots.	lb.	75.00	-80.00
Skullcap, Eastern, bls.	lb.	.23	- .24
Western, bls.	lb.	.14	- .15
Skunk cabbage root, bls.	lb.	.11	- .12
Blue, cnts.	lb.	.07	- .08¼
Slate flour, bgs., c.l., works.	ton.	9.00	- —
l.c.l., works	ton.	10.00	-15.00
Sloe berries, bgs.	lb.	.12	- .14
Smalt, black, extra velvet, cnts.,	lb.	.05	- .08
Snakeroot, Canada, bls.	lb.	.24	- .26
Soapbark, bls.	lb.	.23	- .27
crushed, bls., bbls.	lb.	.27	- .31
cut, bls., bbls.	lb.	.35	Nom.
powd., bbls.	lb.	.32	- .38
Soda, acetate, anhyd., dms., dlvd.	lb.	.08½	- .10
flake, gran., powd., 60%, dms., c.l., dlvd.	lb.	.04	- —
l.c.l., dlvd.	lb.	.04½	- .05
powd., 90%, dms., c.l., dlvd.,	lb.	.06	- —
l.c.l., dlvd.	lb.	.06¾	- —
Alginate, dms., bbls., works,	lb.	.71	- .95
Antimoniate, bbls.	lb.	.14½	- .15
Arsenate, dms., dealers, c.l., works.	lb.	.08	- —
l.c.l., dms., works	lb.	.08½	- —
Arsenite, dry, gray, dms., c.l., dealers, works.	lb.	.07½	- .09½
l.c.l., dms., works	lb.	.08	- .10
white, dms., c.l., dealers, works.	lb.	.09	- .11
l.c.l., dms., works	lb.	.09½	- .11½

Soda arsenite, dry, gray, prices are ¾c. per pound higher in Chicago; 1c. per pound higher in Houston, Tex., and Colorado. White prices are 1c. per pound higher in Tex. and Colo.

Soda ash, dense, 58%, bgs., c.l., works.	100 lbs.	1.10	- —
l.c.l., Zone 1	100 lbs.	2.13	- —
2	100 lbs.	2.28	- —
3	100 lbs.	2.53	- —
4	100 lbs.	2.93	- —
bbls., c.l., works	100 lbs.	1.35	- —
l.c.l., Zone 1	100 lbs.	2.35	- —
2	100 lbs.	2.50	- —
3	100 lbs.	2.75	- —
4	100 lbs.	3.15	- —
bulk, c.l., works	100 lbs.	.95	- —
extra light, 58%, bgs., c.l.,	100 lbs.	1.05	- 1.08
l.c.l., Zone 1	100 lbs.	2.08	- —
2	100 lbs.	2.23	- —
3	100 lbs.	2.48	- —
4	100 lbs.	2.88	- —
bbls., c.l., works	100 lbs.	1.45	- —
l.c.l., Zone 1	100 lbs.	2.45	- —
2	100 lbs.	2.60	- —
3	100 lbs.	2.85	- —
4	100 lbs.	3.25	- —
bulk, c. l.	100 lbs.	.90	- —
light, 58%, bgs., c.l., works.	100 lbs.	1.05	- 1.05
l.c.l., Zone 1	100 lbs.	2.08	- —
2	100 lbs.	2.23	- —
3	100 lbs.	2.48	- —
4	100 lbs.	2.88	- —
bbls., c.l., works	100 lbs.	1.35	- —
l.c.l., Zone 1	100 lbs.	2.35	- —
2	100 lbs.	2.50	- —
3	100 lbs.	2.75	- —
4	100 lbs.	3.15	- —
bulk, c.l.	100 lbs.	.90	- —

Soda ash l.c.l. prices are per 100 lbs. f.o.b. recognized warehouse points and include delivery in any quantity to customer's sidewalk within recognized local trucking distance of seller's warehouse. The sales zones are:—Zone 1, All Northern U. S. E. of Miss. river and North of the Southern boundaries of Ky. and Va., including also St. Louis, Mo., and Davenport, Ia.; Texas, E. of 100° Meridian and S. of 31° parallel; La., Miss., Ala., South of 31° parallel and Fla., in Me., N.H. and Vt. special local zone prices apply for ship't to various counties. Zone 2, Ark. East of 93° Meridian, Neb., E. of 98° Meridian; Tex., N. of 31° parallel and E. of 100° Meridian (except Wichita Falls), Ala., La., and Miss. N. of 31° parallel; Iowa, (except Davenport), Ga., Minn., Mo. (except St. Louis) N. and S.C., and Tenn. Zone 3, Kansas, Neb., W. of 98° Meridian, Tex., W. of 100° Meridian (including Wichita Falls, but excluding El Paso) N. and S.D., Okla., Ark., W. of 98° Meridian. Zone 4, El Paso, Tex., Ariz., Colo., Idaho, Mont., Nev., N.M., Utah and Wyo.

Benzoate, tech., bbls., 4,000 lbs., or more	lb.	.30	- —
1,000 to 3,900 lbs.	lb.	.40	- —
900 lbs. or less	lb.	.43	- —
USP, bbls., 4,000 or more	lb.	.46	- —
1,000 to 3,900 lbs.	lb.	.47	- —
900 lbs. or less	lb.	.50	- —
Soda, benzoate, USP, dms. 4,000 lbs. or more	lb.	.47	- .48
1,000 to 3,900 lbs.	lb.	.48	- .49
900 lbs. or less	lb.	.51	- .52
Bicarbonate, tech., bbls., c.l., works.	100 lbs.	1.70	- —
l.c.l.	100 lbs.	2.05	- —
bgs., c.l.	100 lbs.	1.55	- 1.60
l.c.l.	100 lbs.	1.90	- 1.95
USP, gran., bbls., c.l., works,	100 lbs.	2.25	- —
powd., bbls., c.l., works,	100 lbs.	1.85	- —
l.c.l., dlvd. N. Y.	100 lbs.	2.51	- —
kgs., c.l.	100 lbs.	2.10	- —
l.c.l., dlvd. N Y.	100 lbs.	2.76	- —
Bichromate, spot, c.l., works.	lb.	.06¾	- —
l.c.l., 6 cks. or 10 bbls. or over, works.	lb.	.07	- —
5 cks, or 9 bbls. or less, works.	lb.	.07¼	- —
Bifluoride, bbls.	lb.	.11¼	- 12
Bisulphite, powd., bbls., c.l., bbls., works.	100 lbs.	3.00	- 3.10
l.c.l., works	100 lbs.	3.50	- 3.60
solution, 32 deg., bbls., c.l., works.	100 lbs.	1.30	- —
l.c.l., bbls., works.	100 lbs.	1.55	- —
38 deg., bbls., c.l., works,	100 lbs.	1.35	- —
l.c.l., bbls., works.	100 lbs.	1.60	- —
85 degs., bbls., c.l., works,	100 lbs.	1.40	- —
l.c.l., bbls., works.	100 lbs.	1.65	- —
solut., 44 deg., bbls., works,	100 lbs.	1.55	- —
l.c.l., bbls., works.	100 lbs.	1.80	- —
Bromide, USP, gran., bbls., 500 lbs.	lb.	.31	- —
fiber dms., 100 lbs.	lb.	.32	- —
Cacodylate, bbls., 5 lbs.	lb.	5.81	- —
jars, 25 lbs.	lb.	5.50	- —

Soda Carbonate (see Soda ash, soda monohydrated, soda sal)

Caustic, flake, 76%, powd., ammon. process, bbls., c.l., works.	100 lbs.	2.95	- —
dms., c.l., works.	100 lbs.	2.70	- —
l.c.l., Zone 1	100 lbs.	3.55	- 4.90
2	100 lbs.	3.70	- 5.05
3	100 lbs.	3.95	- 5.30
4	100 lbs.	4.35	- 5.70
electro process, dms., c.l., works.	100 lbs.	2.20	- —
l.c.l. same zone prices as ammonia process.			
liquid, 47-49% buyers' tanks, works.	100 lbs.	1.92½	- —
seller's tanks, works,	100 lbs.	1.95	- -
70%, buyer's tanks, works,	100 lbs.	1.97½	- —
seller's tanks, works,	100 lbs.	2.00	- —
solid, 76%, ammon. process. dms., c.l., works.	100 lbs.	2.30	- —
l.c.l., Zone 1	100 lbs.	3.15	- —
2	100 lbs.	3.30	- —
3	100 lbs.	3.55	- —
electro process, dms., c.l., works.	100 lbs.	2.30	- —
l.c.l., same zone prices as ammon. process.			

Caustic soda l.c.l. prices are on the same basis as those for soda ash. The sales zones are also the same.

Chlorate, dom., cryst., bgs., c.l., works.	lb.	.06¼	- —
l.c.l., works	lb.	.06½	- —
powd., bgs., c.l., works.	lb.	.06½	- —
l.c.l., works	lb.	.07	- .08½

Soda Chromate, spot, c.l., works.	lb.	.08¼	- —
l.c.l., 6 cks., 10 bbls. or over, works.	lb.	.08¾	- —
smaller quantities	lb.	.09¾	- —
Citrate, USP, VIII, gran., bbls., 225-lb. lots.	lb.	.18½	- —
cns., 50-lb. lots	lb.	.20½	- —
25-lb. lots	lb.	.22½	- .23½
kgs., 100-lb. lots	lb.	.19½	- —
USP XI, gran., bbls., 250-lb. lots.	lb.	.24	- —
boxes, 50-lb. lots	lb.	.26	- —
cns., 25-lb. lots	lb.	.28	- .29
kgs., 100-lb. lots	lb.	.25	- —
powd., bbls., 250-lb. lots.	lb.	.24½	- —
boxes, 50-lb. lots	lb.	.26½	- —
cns., 25-lb. lots	lb.	.28½	- —
kgs., 100-lb. lots	lb.	.25½	- —
Cyanide, 96-98%, dom., dms.	lb.	.14	- .15
import, 90%, cs.	lb.	No price	
Cyanide, gold, 48% gold, bots., works.	oz.	15.85	-17.10
Diacetate, 33-35% acidity, bbls., dlvd.	lb.	.09	- —
Fluoride, white, 90%, bbls., c.l., frt. alld.	lb.	.07	- —
l.c.l., 10 or over, same basis.	lb.	.07½	- —
1-9. same basis	lb.	.08	- —
95%, bbls., c.l., same basis,	lb.	.07¼	- —
l.c.l., 10 or over, same basis.	lb.	.07¾	- —
1-9. same basis	lb.	.08¼	- —

Soda fluoride prices at Los Angeles are f.a.s. works.

Glycerophosphate, N.F., cryst., bbls., 1,000-lb. lots.	lb.	1.10	- —
smaller lots	lb.	1.25	- —
cns., 25 lbs.	lb.	1.50	- —

STAUFFER CHEMICALS

CAUSTIC SODA

Stauffer Caustic Soda can be supplied in liquid form in tank cars, and in flake or solid form in drums of 50-100-400 and 700 pounds.

Continuous production on a large scale enables Stauffer to guarantee uniform quality and immediate shipment of fresh stocks from strategically located shipping points.

OTHER STAUFFER PRODUCTS

BORIC ACID : CARBON TETRACHLORIDE : BORAX : TITANIUM TETRACHLORIDE : SULPHUR CHLORIDE : SILICON TETRACHLORIDE : CREAM OF TARTAR : SULPHURIC ACID : TARTARIC ACID : WHITING : LIQUID CHLORINE : CARBON BISULPHIDE : TEXTILE STRIPPER : SULPHUR

A DEPENDABLE SOURCE OF SUPPLY

Stauffer CHEMICALS

STAUFFER CHEMICAL CO.

2710 Graybar Bldg., New York, N.Y.
Carbide and Carbon Bldg., Chicago, Ill.
624 California St., San Francisco, Cal.
555 So. Flower St., Los Angeles, Cal.
424 Ohio Bldg., Akron, Ohio
Freeport, Texas • Apopka, Florida

Soda, Glycerophosphate, powd., bbls., 1,000-lb lots..lb. 1.15 - —
smaller lots.....lb. 1.30 - —
cns., 25 lbs.....lb. 1.55 - —
Hydrosulphite, dms.....lb. .16 - .17
Hydroxide, USP, sticks, cns., 100-lb. lots..lb. .20½- .22
Hypophosphite, N.F., cns., 100-lb. lots..lb. .67 - —
Hyposulphite, cryst., large, bgs., c.l., wks., frt. equal'd..100 lbs. 2.25 - —
bbls., same basis..100 lbs. 2.45 - —
l.c.l., bgs., wks., frt. equal'd..100 lbs. 2.50 - —
bbls., same basis....100 lbs. 2.70 - —
pea bags, c.l., works..100 lbs. 2.60 - —
bbls., works.....100 lbs. 2.80 - —
dms., works.....100 lbs. 3.10 - —
5,000 lbs. and over, bgs., wks..100 lbs. 2.75 - 3.00
bbls., wks.....100 lbs. 2.95 - 3.20
dms., wks.....100 lbs. 3.25 - 3.60
2,500 to 5,000 lbs., bgs., works..100 lbs. 2.85 - 3.10
bbls., wks.....100 lbs. 3.05 - 3.30
dms., wks.....100 lbs. 3.35 - 3.60
500 to 2,500 lbs., bgs., works. lb. 3.10 - 3.25
bbls., wks.....100 lbs. 3.30 - 3.55
dms., wks.....100 lbs. 3.60 - 3.85
less than 500 lbs., bgs., wks. 100 lbs. 3.70 - 3.95
bbls., wks.....100 lbs. 3.90 - 4.15
dms., wks.....100 lbs. 4.20 - 4.45
Iodate, jars.....lb. 5.02 - 5.07
Iodide, jars.....lb. 2.30 - —
bots.....lb. 2.41 - 2.47
Mandelate, bots., 5 lbs.....lb. 3.80 - —
fib. dms., 100-lb. lots.....lb. 3.95 - —
smaller lots.....lb. 3.15 - 3.20
Metanilate, kgs.....lb. .41 Nom.
Metasilicate, anhy., dms., c.l., wks., frt. equal'd..100 lbs. 3.75 - —
15 dms. and over dlvd. N.Y. 100 lbs. 4.65 - —
3-14 dms., same basis..100 lbs. 4.80 - —
1-2 dms., same basis...100 lbs. 5.05 - —
gran., bbls., c.l., works.....lb. 2.35 - —
10 bbls. and over, dlvd., N. Y. lb. 3.10 - —
1-9 bbls., dlvd., N. Y.....lb. 3.35 - —
Molybdate, kgs., wks.....lb. .60 - —
less kgs.....lb. .65 - —
Monohydrated, bbls.....100 lbs. 2.60 - —
works.....100 lbs. 2.30 - —
Naphthionate, bbls.....lb. .50 - —
Nitrate, crude, c.l., 100-lb. bgs., dlvd., f.o.b. cars producing point or ports, rail or boat shipment..ton.29.00 - —
200-lb. bgs., same basis.ton.28.30 - —
bulk, same basis.....ton.27.00 - —
rfd., gran., bbls., 10 tons, 100 lbs. 2.50 - —
1-9 tons.....100 lbs. 2.65 - —
smaller lots.....100 lbs. 2.90 - —
powd., bbls., 10 tons.100 lbs. 5.50 - —
1-9 tons.....100 lbs. 5.65 - —
Nitrite, 96-98%, dom., bbls., c.l., wks., frt. equalized..lb. .06¾- —
c.l., West Coast, f.o.b. ports..lb. .08 - —
l.c.l.....lb. .08¼- .11¼
Soda nitrite l.c.l. price range represents delivery at various points.
Orthosilicate, flake, dms., c.l., works..100 lbs. 3.00 - —
Oxalate, neut., bbls.....lb. .09 - —
kgs.....lb. .10 - .11
Perborate, N.F., bbls., c.l., works..lb. .14¾- —
l.c.l., works.....lb. .15¾- —
Pentachlorphenate, briquets, single, bgs., works..lb. .26 - —
70 lbs., bgs., works.....lb. .19¼- —
490 lbs., bgs., works.....lb. .17½- —
powd., 100 lbs., bgs., works, lb. .19 - —
500 lbs., bxs., works.....lb. .17 - —
Phosphate, dibasic, anhyd., bgs., bgs., c.l., works..100 lbs. 5.15 - —
l.c.l., works.....100 lbs. 6.10 - —
bbls., c.l., works...100 lbs. 5.35 - —
l.c.l., works.....100 lbs. 6.30 - —
cryst., tech., bgs., c.l., works..100 lbs. 2.10 - —
l.c.l., works.....100 lbs. 2.50 - —
bbls., c.l., works...100 lbs. 2.30 - —
l.c.l., works.....100 lbs. 2.70 - —
monobasic, anhyd., bgs., c.l., works..100 lbs. 7.25 - —
l.c.l., works.....100 lbs. 8.00 - —
bbls., c.l., works...100 lbs. 7.45 - —
l.c.l., works.....100 lbs. 8.20 - —
tribasic, bgs., c.l., works...lb. 2.25 - —
l.c.l., works.....100 lbs. 2.65 - —
bbls., c.l., works...100 lbs. 2.45 - —
l.c.l., works.....100 lbs. 2.85 - —
kgs., c.l., works...100 lbs. 2.95 - —
l.c.l., works.....100 lbs. 3.35 - —
USP (dibasic), bbls., works, lb. .09 - .11
dried, bbls., dms., works.lb. .11½- .14
Picramate, kgs.....lb. .65 - —
Prussiate, yellow, bbls., 10,000 lbs. or more..lb. .10¼- —
contracts.....lb. .09½- —
smaller lots.....lb. .10¾- —
contracts.....lb. .09¾- —
Pyrophosphate, anhy., bgs., c.l., wks., frt. equal'd.100 lbs. 5.10 - —
l.c.l., same basis..100 lbs. 5.35 - 5.60
bbls., c.l., wks., frt. equalized..100 lbs. 5.30 - —
l.c.l., same basis..100 lbs. 5.55 - 5.80
Ricinoleate, tech., bbls.....lb. .12 - —
Sal, bgs., dlvd., N. Y...100 lbs. 1.20 - —
works.....100 lbs. 1.00 - —
bbls., dlvd., N. Y.....100 lbs. 1.30 - —
works.....100 lbs. 1.10 - —
Salicylate, bxs.....lb. .52 - —
Sesquicarbonate, bgs., c.l. works..100 lbs. 1.50 - —
l.c.l., Zone 1.....100 lbs. 2.70 - —
bbls., l.c.l. Zone 1....100 lbs. 2.70 - —
2.....100 lbs. 2.85 - —
3.....100 lbs. 3.10 - —
4.....100 lbs. 3.50 - —
Soda sesquicarbonate l.c.l. prices are on same basis as those for soda ash and Caustic soda. The sales are also the same.
Sesquisilicate, dms., c.l., works, 100 lbs. 2.90 - —
10 dms. or over, dlvd., N. Y. C..lb. 4.00 - —
1-9 dms.....lb. 4.25 - —
Silicate, 40° turbid, dms., c.l., works..100 lbs. .80 - —
l.c.l., 5 or more, works, 100 lbs. 1.05 - —
1 to 4 works....100 lbs. 1.20 - —
52°, dms., c.l., works..100 lbs. 1.40 - —
l.c.l., 5 or more, works, 100 lbs. 1.65 - —
1-4, works.....100 lbs. 1.80 - —
Silicofluoride, dom., bbls.....lb. No prices
import, bbls.....lb. .05¾- .06¼
Stannate, dms.....lb. No prices
Stearate, lump, powd., bbls., works..lb. .19 - .24
Soda sulphate, anhyd., bgs., bbls., c.l., works..100 lbs. 1.45 - 1.65
5 tons or over, works, 100 lbs. 1.70 - 1.90
less than 5 tons, works, 100 lbs. 1.95 - 2.15
cryst. (see Glauber's salt).
Sulphide, cryst., bbls., c.l., works..100 lbs. 2.25 - —
l.c.l., 5 tons or over, dlvd., 100 lbs. 2.75 - —
less than 5 tons, dlvd., 100 lbs. 3.00 - —
solid, bbls., c.l., works, 100 lbs. 3.00 - —
l.c.l., 5 tons or over, dlvd., 100 lbs. 3.50 - —
less than 5 tons, dlvd., 100 lbs. 3.75 - —
Sulphite, cryst., bgs., 100 lbs., works..lb. 2.10 - 2.35
bbls. .....100 lbs. 2.30 - 2.55
powd., bbls., c.l.....100 lbs. 5.25 - —
l.c.l., 5 or more....100 lbs. 5.50 - —
1-4 .....100 lbs. 6.00 - —
Sulphocarbolate, cs.....lb. .27 - .28
Sulphocyanide, dms., cns.....lb. .28 - .47
Sulphoricinoleate, bbls.....lb. .12 - —
Thiosulphate (see hyposulphite).
Tungstate, CP, kgs.....lb. No prices
tech., kgs.....lb. No prices
Solvent, naphtha, dms., wks..gal. tanks, E. of Omaha, frt. alld. gal. .32 - —
W. Coast, f.o.b. Minnequa, Colo..gal. .27 - —
High-flash, dms., works, frt. alld..gal. .27 - —
tanks, came basis.....gal. .31 - —
Sorbitol, com'l, solut., dms., c.l., works..lb. .26 - —
l.c.l. .....lb. .15½- —
Soybean protein, bgs., c.l., works, lb. .16 - —
l.c.l., works.....lb. .14¼- —
Sparteine sulphate, cns.....oz. .14½- —
Spearmint leaves, bls.....lb. 1.50 - 1.60
Spikenard root, bls.....lb. .20 - .22
Spruce extract, reg., bbls., c.l., works..lb. .21 - .22
tanks, works.....lb. .01⅝- —
powd., super, bgs., c.l., works, lb. .01½- —
super, bbls., c.l., works.....lb. .04 - —
tanks, works .....lb. .01⅝- —
Squawvine leaves, bls.....lb. .01⅜- —
Squill, red, bls.....lb. .14 - .15
white, bls.....lb. .20 - .21
powd., bbls., bxs.....lb. .10 - .11
St. Ignatius beans, bgs.....lb. .15 - .16
St. John's Bread, edible, bls., lb. .45 - .46
inedible, bls.....lb. .09 - .11
Starch, corn, pearl, bgs., f.o.b. Chicago..100 lbs. 2.50 Nom.
dlvd., N. Y.....100 lbs. 2.35 Nom.
powd., bgs., f.o.b. Chicago, 100 lbs. 2.60 Nom.
dlvd., N. Y.....100 lbs. 2.95 Nom.
Potato, dom., bgs.....lb. .06¼- —
import, bgs.....lb. .06½ Nom.
Rice, bbls.....lb. .07¼ Nom.
Sweetpotato, bgs.....lb. .05½- .06
Wheat, thick, boil, bgs.....lb. .05½ Nom.
Starch, iodide, bots.....lb. 1.87 - —
Staveacre, seed, bgs.....lb. .25 - .30
Stearin, oleo, bbls.....lb. .06¼- .06½
Stillingia root, bls.....lb. .07½- .08
Stoneroot, bls.....lb. .07½- .08
Storax, cs.....lb. .60 - .65
Stramonium leaves, bls.....lb. .18 - .19
Seed, bgs.....lb. .20 - .21
Strontium bromide, fib, dms...lb. .57 - .58
kgs., 150 lbs.....lb. .55 - —
Carbonate, N.F., IV, 250-lb. bbls..lb. .30 - —
25-lb. bxs.....lb. .35 - —
100-lb. kgs.....lb. .32 - —
tech., 99-100%, precip., bbls. lb. .23 - —
Chloride, bbls.....lb. .18 - —
Iodide, bots., 5 lbs.....lb. 3.00 - —
jars, 25 lbs.....lb. 3.06 - —
Nitrate, dom., bbls., c.l., works. lb. .07¾- —
23 bbls. and over.....lb .08¼- —
1-24 bbls. and over....lb .08¾- —
Strophanthus seed, Kombe, bgs.lb. 3.40 - 3.50
Styalyl acetate, bots.....lb. 6.75 - 7.00
Strychnine, cryst., cns., 100-oz. lots..oz. .60 - —
Acetate, 25-oz. cns., 100-oz. lots..oz. .79 - —
Arsenate, 25-oz., cns., 100-oz. lots..oz. .82 - —
Arsenite, 25-oz. cns., 100 oz. lots..oz. .79 - —
Glycerosphosphate, 25-oz. cns., 100-oz. lots..oz. .80 - —
Hydrochloride, 25-oz. cns., 100-oz. lots..oz. .79 - —
Hypophosphite, 25-oz. cns., 100-oz. lots..oz. .91 - —
Nitrate, 25-oz. cns., 100-oz. lots..oz. .73 - —
Phosphate, 25-oz. cns., 100-oz. lots..oz. .80 - —
Sulphate, cryst., cns., 100-oz. lots..oz. .50 - —
powd., cns., 100-oz. lots.oz. .40 - —
Sucrose octa-acetate, denat. grade, bbls., l.c.l., works.lb. .45 - —
tech., bbls., l.c.l., works....lb. .40 - —
Sugar coloring, bbls.....gal. .65 - 1.05
Milk, bbls., c.l.....lb. .16 - —
l.c.l., 10 or over.....lb. .17 - —
less than 10.....lb. .18 - —
Sulfanilamide, 5 lbs., bots.....lb. 1.65 - —
fib., dms., 1,000 lbs., 1 delivery. lb. 1.25 - —
100 lbs.....lb. 1.30 - —
Sulfapyridine, powd., for hospitals, 5-grain bots..bot. 1.25 - —
Sulphonethylmethane, kgs.....lb. 6.75 - 6.80
Sulphonmethane, kgs.....lb. 5.25 - 5.30
Sulphur, crude, bulk, f.o.b. cars, mines, contracts..long ton.16.00 - —
f.o.b. steamers, Gulf ports, contract..long ton.17.50 - —
ex vessels, Atlantic seaboard, contract..long ton.20.50 - —
Puget Sound, Columbia River, and British Columbia ports, bulk, contract.. long ton.22.00 - —
flowers, bgs., c.l., works..... 100 lbs. 3.00 - —
bbls., works.....100 lbs. 3.35 - —
l.c.l., bgs., works..100 lbs. 3.35 - 3.75
bbls., works.....100 lbs. 3.70 - 4.10
refined, broken, bgs., c.l., works, 100 lbs. 2.15 - —
bbls., works.....100 lbs. 2.30 - —
l.c.l., bgs., works....100 lbs. 2.50 - 2.90
bbls., works.....100 lbs. 2.65 - 3.05
flour, comm'l, bgs., c.l., works, 100 lbs. 1.60 - —
bbls., c.l., works..100 lbs. 1.95 - —
l.c.l., bgs., works..100 lbs. 1.95 - 1.98
bbls., works.....100 lbs. 2.30 - 2.70
extra fine, bgs., c.l., works, 100 lbs. 2.85 - —
bbls., works.....100 lbs. 3.20 - —
l.c.l., bgs., works..100 lbs. 3.20 - 3.60
bbls., works.....100 lbs. 3.55 - 3.95
heavy, bgs., c.l., works.100 lbs. 2.55 - —
bbls., works.....100 lbs. 2.90 - —
l.c.l., bgs., works..100 lbs. 2.90 - 3.30
bbls., works.....100 lbs. 3.25 - 3.65
Sulphur, refined, light, bgs., c.l., works..100 lbs. 2.03 - —
bbls., works.....100 lbs. 3.00 - —
l.c.l., bgs., works....100 lbs. 3.00 - 3.40
bbls., works.....100 lbs. 3.35 - 3.75
rock, virgin, bbls., c.l., works, 100 lbs. 2.15 - —
l.c.l., bbls., works..100 lbs. 2.50 - 2.90
roll, bgs., c.l.....100 lbs. 2.35 - —
bbls., works.....100 lbs. 3.50 - —
l.c.l., bgs., works..100 lbs. 2.70 - 3.10
bbls., works.....100 lbs. 2.85 - 3.25
rubber maker's, com'l, 99½%, c.l., frt. alld..100 lbs. 2.00 - —
bbls., same basis, c.l..... 100 lbs. 2.35 - —
refined, 100%, bgs., c.l., frt. alld..100 lbs. 2.35 - —
bbls., same basis.100 lbs. 2.70 - —
Chloride, 55-gal. dms., c.l...lb. .03 - —
l.c.l., dms., works....lb. .04 - —
10-gal. dms., c.l.....lb. .07 - —
l.c.l. .....lb. .08 - —
Dioxide, liq., com'l, cyls., works, lb. .07 - .09
multi-unit, cars, works..lb. .04½- .07
tanks, works.....lb. .04 - .06
refrigeration, cyls., works.lb. .16 - .40
multi-unit cars, works..lb. .07½- .10
Iodide, bots., jars.....lb. 3.90 - 4.05
Precipitated, USP, bbls.....lb. .17 - .22
Sumac, grd., Sicilian, f.a.s..ton.98.00 - —
leaf, bls., f.a.s.....ton.98.00 - —
Extract, 42°, bbls.....lb. .06 - —
51°, bbls.....lb. .07 - —
stainless, bbls.....lb. .07½- .09½
Berrisa, bgs.....lb. .14 - .15
Sunflower seed, Calif., large, bgs., lb. .07 - .07½
medium, bgs.....lb. .06 - .06½
poultry, bgs.....lb. .0500- .0530
Superphosphate, guaranteed, 16%, bulk, f.o.b. cars, boat, Balto. ton. 9.00 - —
run-of-pile, basis 16%, bulk, same basis..ton. 8.50 - —
triple, 40-48%, a.p.a. bulk, f.o.b. Balto..unit-ton. .70 - —

T

Talc, dom., Calif., 1, bgs., c.l., mills..ton.20.00 - —
2, bgs., c.l., mills.....ton.17.00 - —
N. Y., fibrous, 93-94%, 325 mesh, bgs., c.l., mills, ton.14.00 -16.00
l.c.l., mills.....ton.16.00 -18.00
96-98%, 325 c.l., mills..ton.15.00 -17.00
l.c.l., mills.....ton.17.00 -19.00
98-99½%, 325 mesh, bgs., c.l., mills..ton.15.25 -17.25
l.c.l., mills.....ton.17.25 -19.25
fibrous, 90.85-99.95%, 325 mesh, bgs., c.l., mills..ton.17.00 -19.00
coarse, off color, bgs., c.l., mills..ton.11.00 -13.00
Ohio, flake type, grd., bgs., c.l., mills..ton.21.00 - —
l.c.l., mills.....ton.24.50 - —
Vermont, bgs., c.l., mills, ton.14.00 - —
l.c.l., ex whse.....ton.25.00 - —
Canad.. bgs., c.l., mills...ton.11.50 -13.00
French, high-grade, bgs., l.c.l., ex whse..ton.45.00 -60.00
ordinary, bgs., c.l., ex dock, arrival..ton.23.00 -25.00
l.c.l., ex whse.....ton.27.50 -35.00
Italian, 1, bgs., ex dock, arrival, ton.67.00 -70.00
ex whse.....ton.75.00 -78.00
2, bgs., ex dock, arrival.ton.64.00 -67.00
Tallow, animal, edible.....lb. .06 Nom.
extra, loose.....lb. .05½- —
special, loose.....lb. .05⅜- —
vegetable, ship, cs.....lb. .06 Nom.
sulphonated, 35% (24% fat), dms., c.l..lb. .03¾ Nom.
l.c.l. .....lb. .04¾ Nom.
50% (43% fat), dms., c.l., lb. .05¼ Nom.
l.c.l. .....lb. .06¼ Nom.
50% (48% fat), dms., c.l..lb. .05¾ Nom.
l.c.l. .....lb. .06¾ Nom.
Tamarind, W. I., bbls.....lb. .08 - .09
kegs .....keg. 6.00 - 8.00
Tankage, animal, dom., grd., 9% ammon., 10% b.p.l., bulk..unit-ton. 3.25 & .10
unground feeding, 9-11% ammon., 15-20% b.p.l., bulk..unit-ton. 3.40 & .10
10-11% ammon., 15% b.p.l., bulk, Chicago..unit-ton. 3.50 & .10
high-grade feeding, bulk, Chicago..unit-ton. 3.75 & .10
import, S. Amer., 10-12% ammon., 15% b.p.l., bulk, c.i.f., ports, Feb. shipt..unit-ton. 3.50 & .10
Tansy leaves, bls.....lb. .22 - .23
Tapioca flour, bgs.....lb. .02¾- .04½
Tar acid oil, 15%, dms., c.l., works..gal. .22 - —
l.c.l., same basis.....gal. .24 - —
25%, dms., c.l., works....gal. .26 - —
l.c.l., same basis.....gal. .28 - —
Tar, pine, retort, dms., c.l., dlvd. E. cities..gal. .27 - —
ports .....gal. .26 - —
l.c.l. .....gal. .27 - —
tanks, dlvd. E. cities.....gal. .21 - —
Tarragon herb, bgs.....lb. .60 - .65
Tartar emetic, tech., fine gran., bbls., 5 or more..lb. .34¾ Nom.
less than 5.....lb. .35 Nom.
powd., bbls., 5 or more..lb. .34¾ Nom.
less than 5.....lb. .35 Nom.
USP, powd., bbls.....lb. .40 Nom.
Terebene, cans.....lb. .70 - .75
Terpinyl acetate, cns.....lb. .82 - .85
Terpin hydrate, kgs.....lb. .60 - .65
Terpineol, CP, cns.....lb. .28 - —
dms .....lb. .25 - —
Terpineol, alpha, denat. grade, dms., c.l., wks., net wgt..lb. .17 - —
Terra alba (see Gypsum).
Tetrachloroethane, dms., wks..lb. .08 - .08½
Tetrachloroethylene, CP, dms..lb. .21½- —
tech. (see Perchloroethylene).
Tetralin, dms.....lb. .12 - —
Tetrasodium pyrophosphate (see soda pyrophosphate).
Thallium sulphate, 99% pure, bots., works..lb. 5.00 - 7.00
Theobromine, cns.....lb. 2.10 Nom.
Sodiosalicylate, cns.....lb. 1.85 - —
dms. .....lb. 1.70 - —
5-lb. bots.....lb. 2.01 - —
Thiocarbanilide, dms.....lb. .24 - —
Thorium, nitrate, cs., works..lb. 2.00 - —
Thyme, French, bls.....lb. .20½- .21
Thymol, dms., 100 lbs.....lb. 1.50 - —
cns., 25 lbs.....lb. 1.55 - 1.60
Iodide, kgs., 50 lbs.....lb. 3.25 - 3.30
25 lbs.....lb. 3.35 - 3.40
Timbo, root, powd., 4% rotenone, bbls..lb. .18 - .24
5% rotenone, bbls.....lb. .22 - .30
Tin chloride (ous), anhyd.....lb. .44½ Nom.
Crystals, bbls., kgs.....lb. .36 Nom.
Metal, Straits.....lb. .45½ Nom.
Oxide, bbls.....lb. .82 - —
Tetrachloride, anhyd., bbls...lb. .23 - —
Titanium, dioxide, bgs., c. l. (20 tons), frt. pd..lb. .13 - —
l.c.l., 5 tons, E. frt. pd. lb. .13¼- —
5 tons, E. frt. pd., Pac. Cst., ex whse..lb. .13¼- —
1,000-9,999 lbs., E. frt. pd. lb. .13½- —
Pac. Cst., ex whse..lb. .13½- —
50-999 lbs., E. frt. pd. lb. .13¾- —
Pac. Cst., ex whse..lb. .13¾- —
under 50 lbs., E. frt. pd., lb. .16 - —
Pac. Cst., ex whse..lb. .16 - —
bbls., c.l. (20 tons), frt. pd., lb. .13¼- —
l.c.l., 5 tons, E. frt. pd., lb. .13½- —
Pac. Cst., ex whse....lb. .13½- —
1,000-9,999 lbs., E. frt. pd., lb. .13¾- —
Pac. Cst., ex whse....lb. .13¾- —
50-999 lbs., E. frt. pd....lb. .14 - —
Pac. Cst., ex whse....lb. .14 - —
chalk-resistant, bgs., c.l., (20 tons), frt. pd..lb. .15 - —
l.c.l., 5 tons, frt. pd....lb. .15¼- —
1,000-9,999 lbs., frt. pd.lb. .15½- —
50-999 lbs., frt. pd....lb. .15¾- —
Under 50 lbs., frt. pd..lb. .18 - —
bbls., c.l., (20 tons), frt. pd. lb. .15¼- —
l.c.l., 5 tons, E. frt. pd..lb. .15½- —
Pac. Cst., ex whse..lb. .15½- —
1,000-9,999 lbs., E. frt. pd. lb. .15¾- —
Pac. Cst., ex whse..lb. .15¾- —
50-999 lbs., E. frt. pd., lb. .16 - —
Pac. Cst., ex whse..lb. .16 - —
barium or magnesium base, bgs., c.l., D. frt. alld., lb. .05¼- —
l.c.l., dlvd.....lb. .05½- —
Pac. Cst., ex whse..lb. .05½- —
under 50 lbs., E. dlvd.lb. .06¼- —
bbls., c.l., D., frt. alld..lb. .05½- —
l.c.l., E., dlvd.....lb. .05¾- —
Pac. Cst., ex whse..lb. .05¾- —
under 50 lbs., E. dlvd.lb. .06½- —
calcium base, bgs., c.l., D. frt. alld..lb. .05 - —
l.c.l., dlvd.....lb. .05¼- —
Pac. cst., ex whse.....lb. .05¼- —
under 50 lbs., E., dlvd....lb. .06 - —
bbls., c.l., D., frt. alld.....lb. .05¼- —
l.c.l., E., dlvd.....lb. .05½- —
Pac. cst., ex whse..lb. .05½- —
under 50 lbs., E., dlvd....lb. .06¼- —
Tolidin base, distilled, kgs....lb. .86 - —
Tolu, balsam, cns.....lb. .85 - .90
Toluidin, mixed, dms.....lb. .26 - —
Toluol (toluene), 2° indus., dms., returnable..gal. .30 - —
tanks, E. of Omaha, frt. alld. gal. .25 - —
tanks, W. Coast, f.o.b. Minnequa, Colo..gal. .25 - —
1° nitration, dms., returnable, gal. .31½- —
tanks, E. of Omaha, frt. alld. gal. .26½- —
tanks, W. Coast, f.o.b. Minnequa, Colo..gal. .26½- —
Tonga vine, F, bls.....lb. .55 - .60
root, bls.....lb. .57 - .63
Tonka beans, Angostura, eks..lb. 2.40 - 2.50
Brazilian, Surinam, cs.....lb. 1.00 - 1.10
Triacetin, dms. .....lb. .26 - —
Triamyl borate, dms., l.c.l., works..lb. .27 - —
Triamylamine, dms., c.l., works, lb. .77 - —
l.c.l., works.....lb. .78 - .80
tanks .....lb. .75 - —
Tributylamine, dms., c.l., works, lb. .67 - —
l.c.l. .....lb. .68 - .70
tanks .....lb. .65 - —
Tributyl citrate, dms., l.c.l., dlvd..lb. .85 - —
Phosphate, dms., l.c.l., divd., lb. .42 - —
cns., works.....lb. .46 - .48
Trichlorethylene, dms., c.l., works, frt. alld., Zone 1..lb. .08 - —
l.c.l., same basis.....lb. .08½- —
Zone 2, dms., c.l., works, frt. alld..lb. .08½- —
l.c.l., same basis.....lb. .09 - —
Zone 3, dms., c.l., works, frt. alld..lb. .09 - —
l.c.l., same basis.....lb. .09½- —
Zone 4, dms., c.l., f.o.b. stock points..lb. .09 - —
l.c.l., same basis.....lb. .09½- —

All prices on trichlorethylene are frt. alld. with the exception of Zone 4, in which case the prices indicated are based on f.o.b. L. A., Cal.; S. F., Cal.; Portland, Ore., and Seattle, Wash. Zone 1 includes the following states:—Geaa., Md., N. Y., Va., Ky., Mo., N. J., Vt., W. Va., Mo., Tenn., Ind., Ia., Pa., R. I., Ill., Mich., Minn., Wis., Del. Mass., N. C., O., Omaha, Neb.; Kansas City, Kansas. Zone 2 includes Ala., Kan., except Kansas City; N. D., Ga., Neb., except Omaha; S. D., Miss., Ark., S. C., La., Okla. and Fla. Zone 3 includes Colo., N. M., Wyo., Texas and Eastern Montana. Zone 4 includes Arizona, Western Montana, Idaho, Ore., Nev. Wash., Utah and Cal.

Tricresyl phosphate, CP, cns., dlvd..lb. .40½- .51½
dms., c.l., dlvd.....lb. .34½- —
tech., dms., c.l.....lb. .22 - —
500 lbs., dms.....lb. .22½- —
less than 500 lbs.....lb. .25½- .36½
Triethanolamine, dms., c.l., works, lb. .19 - —
l.c.l., works.....lb. .20 - —
tanks, works.....lb. .18 - —
Triethylamine, dms., l.c.l., works, lb. 1.05 - —
Triethyl phosphate, dms., dlvd., lb. .45 - —
Triethyleneglycol, dms., l.c.l., works..lb. .26 - —
Trimethyl phosphate, cns.....lb. .54 - .56
dms., dlvd.....lb. .50 - —
Trimethylamine, dms., c.l., dlvd., lb. 1.00 - —
l.c.l., dlvd.....lb. 1.05 - —
Triphenyl phosphate, dms.....lb. .38 - —
Tripoli, air-floated, bgs., c.l., works..ton.26.00 - —
double grd., bgs., c.l., works, ton.16.00 - —
once-grd., bgs., c.l., works.ton.14.50 - —
Trisodium phosphate (see Soda phosphate, tribasic).
Tungsten metal, powd., 99%, dms., works..lb. No prices
Oxide, CP, kgs.....lb. No prices
Chem. grade, kgs.....lb. No prices
Turmeric root, Alleppey, bgs..lb. .09½ Nom.
Madras, bgs.....lb. .11 Nom.

Turpentine—Yellow, Chrome

Turpentine, spirits, gum, bbls., c.l., ex dock..gal. .38¾- —
l.c.l., 10 ex dock.....gal. .40¾- —
5 ex dock.....gal. .42¾- —
wood dest., dist., dms., dlvd. E. cities, ports..gal. .26 - .28
tanks, dlvd. E. cities....gal. .21 - —
steam-dist., dms., c.l., dlvd.gal. .33 - —
l.c.l., dlvd.....gal. .36 - —
tanks, dlvd.....gal. .28 - —

U

Unicorn root, false (see Helonias root)
True (see Aletris root).
Uranium oxide, black, kgs....lb. 2.65 - —
yellow, kgs.....lb. 1.75 - —
Urea, dom., 46+% N., bgs., 20 tons, f.o.b. Belle, W. Va., Searsport, Me., Norfolk, Wilmington, N. C., Charleston, Savannah, Jacksonville, Tampa, Pensacola, Mobile, Gulfport, New Orleans..ton.95.00 - —
5 tons, f.o.b. Baltimore, Boston, New York, Newark, Philadelphia, Wilmington, Del..ton.95.00 - —
less than 5 tons, f.o.b. Newark, New York, Philadelphia..ton.101.00 - —
any quantity, f.o.b. Belle, W. Va..ton.95.00 - —
import, 46% N., bgs., 5 tons, f.o.b. Atl., Gulf ports or Belle, W. Va., shipt..ton.95.00 - —
Urea, import, 46% N., bgs., smaller lots, f.o.b. N. Y. from whse..ton.101.00 - —
pure, cs.....lb. .13 - —
Urea-ammonia liquor, nitrogen basis, tanks, f.o.b. Belle, W. Va., or Atl., Gulf ports, ton.121.58 - —
Urea nitrogen, dom., 42% N_2 bulk, Jan. shipt., f.o.b. Belle, W. Va..ton.57.40 - —
Urea, nitrogen, imported, 40% N_2, bgs., Jan. shipt..ton.56.25 - —
30% N_2 bgs., Jan. shipt., ton.42.55 - —
Uva ursi leaves, bls.....lb. .11 - .12

V

Valerian root, bls.....lb. .45 - .50
Valonia, beards, bgs., f.a.s...ton.52.00 - —
Cups, bgs., shipt., f.a.s...ton.37.00 -39.00
extract, powdered, 63%.....lb. .0565 Nom.
Vanilla beans, Bourbon, tins..lb. 6.50 - 7.00
Mexican, tins.....lb. 6.50 - 7.50
cuts, tins.....lb. 6.00 - 6.25
South American, tins.....lb. No prices
oleoresin, bots.....lb.18.00 -19.00
Vanillin, ex eugenol, 25-lb. tins, lb. 2.60 - —
5-lb. tins.....lb. 2.65 - —
1-lb. tins.....lb. 2.75 - —
ex guaiacol, 25-lb. tins.....lb. 2.50 - —
5-lb. tins.....lb. 2.55 - —
1-lb. tins.....lb. 2.65 - —
ex lignin, 25-lb. tins.....lb. 2.50 - —
5-lb. tins.....lb. 2.55 - —
1-lb. tins.....lb. 2.65 - —
Venice turpentine, true, cs.....lb. .70 - .75
Verdigris, bbls., kgs.....lb. .22 - .23
Vinyl acetate, cns., works....lb. .25 - —
dms., c.l., 30,000 lbs. gross, works..lb. .14 - —
l.c.l., works.....lb. .15 - —
5 gals., dms., works.....lb. .25 - —
Violet, methyl, toner (see M).
V.M.P. naphtha (see petroleum naphtha, v.m.p.).

W

Wahoo bark, bls.....lb. .45 - .46
tree.....lb. .19 - .22
Wattle bark, bgs., f.a.s.....ton.38.00 -39.00
Extract, solid, bgs.....lb. .04¼- —
Wax, bayberry, import, bgs...lb. .25 - .26
Bees, white, bleach, slabs, cs., 5 case lots..lb. .38 - —
1 cs. lots.....lb. .38½- —
cakes, 5 cs., lots.....lb. .39 - —
1 cs., lots.....lb. .39½- —
discs, 5 cns., lots.....lb. .40 - —
1 cs., lots.....lb. .40½- —
yellow, crude, Africa, 10-bg. lots..lb. .27 - .27½
1 bg.....lb. .27½- .28
Brazil, bgs., 5-10 lots....lb. .27 - .27½
1 ton.....lb. .27½- .28
500 lbs.....lb. .28 - .28¼
100 lbs.....lb. .28½- .29
refd., slabs, cs., lbs.....lb. .31 - .36
Candelilla, bgs., 1 ton.....lb. .18 - .18½
jobbing lots.....lb. .18½- .19
Carnauba, No. 3 chalky, bgs., 1 ton..lb. .43 - .44
5 bgs.....lb. .43½- .44½
1 bg.....lb. .44 - .45
N. C., 3, bgs., 1 ton.....lb. .46 - .47
Wax, carnauba, N. C., 3 bgs., 1 ton..lb. .48 - .49
5 bgs.....lb. .46½- .47½
1 bg.....lb. .47 - .47½
refined, bgs.....lb. .53 - .54
yellow, No. 1, bgs., 1 ton..lb. .69 - .70
5 bgs.....lb. .69½- .70½
1 bg.....lb. .70 - .71
No. 2, bgs.....lb. .68 - .69
Ceresia, dom., 138°, 140° m.p., bgs., 1 ton..lb. .11½- .12
jobbing lots.....lb. .12½- .13
150°-160° m.p., bgs., 1 ton..lb. .13½- .14
jobbing lots.....lb. .14½- .15
160° m.p., bgs., 1-ton.....lb. .13½- .14
jobbing lots.....lb. .14½- .15
Japan, cs.....lb. .16 - .16½
Montan, bgs., c.l.....lb. No prices
5 tons.....lb. No prices
less than 1 ton.....lb. No prices
Ozokerite, hard, green, congeal, p. 66°-68° C., bgs..lb. No prices
70°-72° C., bgs.....lb. No prices
74°-76° C., bgs.....lb. No prices
Snow-white, pure 76°-78° C., bgs..lb. No prices
yellow, natural, 76°-78° C., bgs..lb. No prices
Paraffin (see P.).
Spermaceti, blocks, cs.....lb. .23 - .24
cakes, cs.....lb. .24 - .25
White lead (see Lead, white).
White pine bark, rossed, bls...lb. .07 - .08
White precipitate, powd., 5-lb. bots..lb. 2.47 - —
dms., 50 lbs. or more....lb. 2.34 - —
Whiting, chalk, com'l., dry-grd., blp. bgs., c.l., works..ton.16.00 -20.00
l.c.l., works.....ton.18.00 -22.00
bbls., c.l., work.....ton.19.00 -24.00
l.c.l., works.....ton.21.00 -26.00
pap. bgs., c.l., works....ton.15.00 -18.00
l.c.l., works.....ton.17.00 -20.00
wet.-grnd., blp., bgs., c.l., works..ton.18.50 -22.50
l.c.l., works.....ton.19.00 -23.00
bbls., c.l., works.....ton.21.00 -25.00
gilder's bolted, blp., bgs., c.l., works..ton.18.00 - —
l.c.l., works.....ton.19.00 - —
bbls., c.l., works.....ton.20.00 -21.50
l.c.l., works.....ton.21.00 -22.00
pap. bgs., c.l., works..ton.17.00 -18.50
l.c.l., works.....ton.18.00 -19.00
Paris white, blp., bgs., c.l., works..ton.19.00 - —
l.c.l., works.....ton.20.00 - —
bbls., c.l., works.....ton.22.50 -27.50
l.c.l., works.....ton.22.00 -28.00
pap. bgs., c.l., works..ton.19.60 -25.10
l.c.l., works.....ton.20.00 -26.50
Limestone, air floated, 99.75%, 250 mesh, paper bgs., c.l. ton. 9.65 - —
200 mesh, paper bgs., c.l., same basis..ton. 8.60 - —
90%, 200 mesh, paper bgs., c.l., same basis..ton. 6.25 - —
gilders, bgs. (extra), c.l., works..ton.11.50 - —
l.c.l., 8-20 tons, works..ton.12.50 - —
4-8 tons, works.....ton.13.50 - —
2-4 tons, works.....ton.14.50 - —
extra bgs. (extra), c.l., works, ton.12.50 - —
extra, bgs., l.c.l., 8-20 tons, works..ton.13.50 - —
4-8 tons, works.....ton.14.50 - —
2-4 tons, works.....ton.15.50 - —
putty grade, bgs. (extra), c.l., works..ton.11.00 - —
l.c.l., 8-20 tons, works.ton.12.00 - —
4-8 tons, works.....ton.13.00 - —
2-4 tons, works.....ton.14.00 - —
water-floated, bgs., (extra), c.l., works..ton.11.50 - —
l.c.l., 8-20 tons, works.ton.12.50 - —
4-8 tons, works.....ton.13.50 - —
2-4 tons, works.....ton.14.50 - —
precipitated, bgs., c.l., works, ton.15.00 - —
l.c.l., 5 tons, works....ton.20.00 - —
smaller lots, works...ton.25.00 - —
Wild cherry bark, thick, natural, bls..lb. .07 - .08
rossed, bls.....lb. .05 - .06
thin, natural, bls.....lb. .07 - .08
rossed, green, bls.....lb. .10 - .11
Wild indigo root, bgs.....lb. .13 - .14
Witch-hazel extract, dist., NF, bbls..gal. .40 - .45
leaves, bls.....lb. .07 - .09
Witherite (see Barium carbonate, natural).
Woodflour, dom., fine, bgs., extra, c.l., works..ton.25.00 - —
standard, bgs., c.l., works, ton.20.00 - —
import, 70 mesh, bgs., ex dock, ton. No prices
80 mesh, bgs., ex dock....ton. No prices.
100 mesh, bgs., ex dock...ton. No prices.
120 mesh, bgs., ex dock...ton. No prices.
Wormseed, American, bgs.....lb. .08 - .09
Levant, bgs.....lb. 5.00 - 6.00
Wormwood, bls.....lb. .18 - .20

X

Xylol (xylene), indus., dms., returnable, works..gal. .32 - —
tanks, E. of Omaha, frt. alld., gal. .27 - —
tanks, W. Coast, f.o.b. Minnequa, Colo..gal. .27 - —
10°, dms., returnable, works. gal. .35 - —
tanks, E. of Omaha, frt. alld. gal. .30 - —
5°, dms., returnable, works. gal. .42 - —
tanks, E. of Omaha, frt. alld..gal. .40 - —
3°, dms., returnable, works..gal. .47 - —
tanks, E. of Omaha, frt. alld..gal. .45 - —
Xylidin, mixed, dms.....lb. .35 - .36

Y

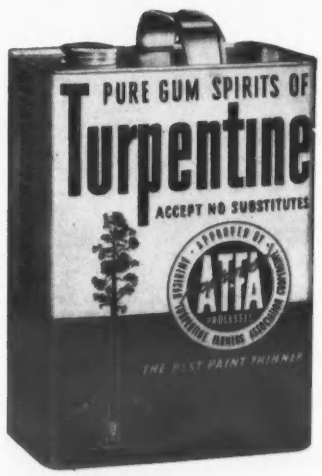
Yara yara, cryst., cns.....lb. 1.25 - 1.55
Yellow, cadmium, CP, import., bxs..lb. 1.35 - 1.70
lithopone, all shades, bbls., 1 ton, works, frt. alld..lb. .50 - —
smaller lots, same basis..lb. .55 - —
lithopone, all shades, kgs., ton lots, same basis..lb. .55 - —
smaller lots, same basis, lb. .60 - —
Sulphide, orange, bbls., works, lb. .75 - —
Chrome, CP, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul, contracts.....lb. .13½- —
open order.....lb. .14½- —
Chrome yellow CP prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Tex., (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; ½c. higher dlvd. Pac. coast, for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.

The AT-FA Seal of Approval is assurance of genuine, Pure Gum Spirits of Turpentine.
PAINT NOW and SAVE
CAMPAIGN
TO CONTINUE IN 1940

THE PAINT NOW AND SAVE national advertising campaign of the American Turpentine Farmers Association Cooperative—which is increasing sales for Paint Manufacturers and Dealers making more jobs for Painting Contractors and giving homeowners better painting—will continue in 1940 with increased vigor.

In this $200,000 campaign, homeowners are being told to PAINT NOW AND SAVE—to employ a reliable Painting Contractor and to use *quality materials.* This message, through the medium of the leading national magazines, is reaching the tremendous total of 21,460,000 homeowners. Response from all quarters has been enthusiastic.

Paint Manufacturers, Dealers and Painting Contractors know that good quality pigments and oils require, for best results, PURE GUM SPIRITS OF TURPENTINE—the best paint thinner ever discovered. It penetrates the surface and anchors the paint.



The attractive green and white lithographed can is recognized by homeowners as proof of a high quality Paint Job.

AMERICAN TURPENTINE FARMERS ASSOCIATION COOPERATIVE
Valdosta, Georgia

FORMULATE WITH *Gum Turpentine*

Yellow, Dutch, pink, bbls.....lb.	.09	-	.11
Hansa, bbls., same basis, chrome..lb.	1.37	-	—
primrose shade, bbls., same basis, chrome...lb.	1.75	-	—
Mercury oxide (see M).			
Ocher, Amer., golden, A, bbls., works..lb.	.06¼-		—
B, bbls., works.....lb.	.04½-		—
C, bbls., works.....lb.	.05¾-		—
yellow, A, bbls., works...lb.	.02¼-		—
B, bbls., works.....lb.	.02½-		—
C, bbls., works.....lb.	.02	-	—
D, bbls., works.....lb.	.0195-		—
E, bbls., works.....lb.	.01775-		—
F, bbls., works.....lb.	.01½-		—
yellow, G, bbls., works...lb.	.01½-		—
H, bbls., works.....lb.	.01¾-		—
French, all shades, cks., c.l., ex dock Balto, Boston, N. Orleans, for import, lb.	.02475	Nom.	
New York (f.o.b.)..lb.	.02¾	Nom.	
Philadelphia for import..lb.	.02¾-	Nom.	
ex dock, San Pedro, San Francisco..lb.	.0290	Nom.	
l.c.l., ex dock, Balto, Boston, N. Orleans..lb.	.02575	Nom.	
l.c.l., ex dock, Balto, Boston, N. Orleans..lb.	.02575	Nom.	
New York.....lb.	.02¾	Nom.	
ex dock, Phila., for import..lb.	.02¾	Nom.	
Portland, Seattle...lb.	.03½	Nom.	
San Pedro, S. Francisco..lb.	.03	Nom.	
ex whse., Balto., Boston, N. Orleans..lb.	.02725	Nom.	
Chicago, E. St. Louis, Indianapolis, Kan. City, Milwaukee, St. Louis .....lb.	.03¾	Nom.	
New York.....lb.	.03	Nom.	
l.c.l., ex whse., Pittsburgh, lb.	.03¼	Nom.	
Portland, Seattle.....lb.	.03¾	Nom.	
San Pedro, S. Francisco..lb.	.03¼	Nom.	
f.o.b. N. Y., from dock, lb.	.02¾	Nom.	
from whse.....lb.	.03¼	Nom.	
Oxide, nat., bbls., c.l., f.o.b. Bethlehem, Easton, N.Y..lb.	.04½-		—
l.c.l., same basis.....lb.	.04¾-		—
synth., bbls., c.l., works...lb.	.06½-		—
l.c.l., same basis.....lb.	.06¾-		—
Persian orange (see O.).			
Zinc, bbls., same basis, chrome CP, contracts..lb.	.18	-	—
open order.....lb.	.19	-	—
Yellow dock root, dom., bls....lb.	.17	-	.18
Yellow root (xanthoriza), bls..lb.	.11	-	.12
Yerba santa leaves, bls.....lb.	.09	-	.10
Yohimbine hydrocrloride, via..oz.	4.00	-	4.25

Z

Zein, bgs., 1,000 lbs. or more, works..lb.	.20	-	—
less than 1,000 lbs., works..lb.	.25	-	—
Zinc acetate, tech., bbls., works, lb.	.15	-	.16
USP, bbls., 250 lbs.....lb.	.27	-	—
kgs., 100 lbs.....lb.	.29	-	—
Zinc, arsenite, bgs., c.l., dealers, E. of Rockies..lb.	.12	-	—
l.c.l., bags .....lb.	.12½-		—
Zinc arsenite prices are on a frt. alld. basis to dest. in lots of 96 lbs. or over.			
Carbonate, tech., bbls.....lb.	.14	-	.16
USP, precip., powd., bbls...lb.	.31	-	—
dms. .....lb.	.36	-	—
kgs. .....lb.	.33	-	—
Chloride, tech., fused, dms., c.l., works..100 lbs.	4.25	-	—
l.c.l., works.....100 lbs.	4.60	-	—
gran., dms., c.l., works, 100 lbs.	5.00	-	—
USP, 200-lb. dms.....lb.	.25	-	—
25-lb. jars.....lb.	.31	-	—
solution, 50%, dms., c.l. works..lb.	.0290-		—
l.c.l., works.....lb.	.04	-	.04½
tanks, works.....lb.	.0225-		—
Cyanide, kgs., works.....lb.	.33	-	—
Dust, bbls., c.l., dlvd.....lb.	.07½-		—
l.c.l., bbls., dlvd.....lb.	.08	-	—
Iodide, N.F., bots.....lb.	4.35	-	—
jars .....lb.	4.20	-	—
Fluoride, bbls.....lb.	.20	-	.25
Metal (see daily quotations in Market report).			
Oxide, pigment, dom., Amer., process, coml., lead free, bgs., c.l., dlvd..lb.	.06¼-		.07½
l.c.l., dlvd., except Pac. cst..lb.	.06½-		.07¾
bgs., l.c.l., ex whse., Pac. cst.....lb.	.06½-		.07¾
bbls., c.l., dlvd....lb.	.06½-		.07¾
l.c.l., dlvd., except Pac. cst..lb.	.06¾-		.08
ex whse., Pac. cst..lb.	.06¾-		.08
leaded, 5%, bgs., c.l., dlvd..lb.	.06½-		—
l.c.l., dlvd., except Pac. cst..lb.	.06¾-		—
ex whse., Pac. cst.lb.	.06¾-		—
bbls., c.l., dlvd....lb.	.06¾-		—
l.c.l., dlvd., except Pac. cst..lb.	.06¾-		—
ex whse., Pac. cst.lb.	.06¾-		—
35%, bgs., c.l., dvld..lb.	.06	-	—
l.c.l., dlvd., except Pac. cst..lb.	.06¼-		—
ex whse., Pac. cst. lb.	.06¼-		—
bbls., c.l., dlvd.....lb.	.06¼-		—
l.c.l., dlvd., except Pac. cst..lb.	.06½-		—
bgs., l.c.l., ex whse., Pac. cst..lb.	.06½-		—
50%, bgs., c.l., dlvd., except Pac. cst..lb.	.0606-		—
dlvd., Pac. cst..lb.	.0612-		—
l.c.l., dlvd., except Pac. cst..lb.	.0631-		—
bgs., ex whse., Pac. cst..lb.	.0637-		—
bbls., c.l., dlvd....lb.	.0637-		—
l.c.l., ex whse., Pac. Cst. lb.	.0662-		—
French process, com'l, lead free, bgs., c.l., dlvd., lb.	.06¼-		.07¼
l.c.l., dlvd., except Pac. cst..lb.	.06½-		.07¾
ex whse., Pac. cst..lb.	.06½-		.07¾
bbls., c.l., dlvd.....lb.	.06½-		.07¾
l.c.l., dlvd., except Pac. cst..lb.	.06¾-		.08
ex whse., Pac. cst., lb.	.06¾-		.08
Zinc, oxide, pigment, green seal, bgs., c.l., dlvd..lb.	.08	-	—
l.c.l., dlvd., except Pac. cst..lb.	.08¼-		—
ex whse., Pac. cst..lb.	.08¼-		—
bbls., c.l., dlvd.....lb.	.08¼-		—
l.c.l., dlvd., except Pac. cst..lb.	.08½-		—
ex whse., Pac. cst.lb.	.08½-		—
red seal, bgs., c.l., dlvd..lb.	.07½-		—
l.c.l., dlvd., except Pac. cst..lb.	.07¾-		—
ex whse., Pac. cst..lb.	.07¾-		—
bbls., c.l., dlvd.....lb.	.07¾-		—
bbls., l.c.l., dlvd., except Pac. cst..lb.	.08	-	—
ex whse., Pac. cst..lb.	.08	-	—
white seal, bgs., c.l., dlvd. lb.	.08½-		—
l.c.l., dlvd., except Pac. cst..lb.	.08¾-		—
ex whse., Pac. cst..lb.	.08¾-		—
French process, white seal, l.c.l., ex whse., bbls., c.l..lb.	.08¾-		—
l.c.l., dlvd., except Pac. cst..lb.	.09	-	—
ex whse., Pac. cst..lb.	.09	-	—
imported, gold seal, cks., ex whse..lb.	.13	-	.14
green seal, bbls., ex whse., lb.	.10	-	—
white seal, cks., ex whse., lb.	.11	-	.12¾
USP, bbls., c.l.....lb.	.09½-		—
Palmitate, bbls.....lb.	.24½-		.27½
Resinate, fused, pale, bbls..lb.	.10	-	—
precip., dms., dlvd.....lb.	.15	-	—
Stearate, tech., precip., bbls., ctns., c.l..lb.	.23	-	—
l.c.l., 1 ton.....lb.	.24	-	—
1,000-2,000 lbs.....lb.	.25	-	—
less than 1,000 lbs...lb.	.26	-	—
USP, bbls.....lb.	.24	-	.26
Sulphate, cryst., bgs., c.l., 100 lbs.	2.75	-	—
l.c.l. .....100 lbs.	3.50	-	—
bbls c.l.....100 lbs.	2.90	-	—
l.c.l. .....100 lbs.	3.65	-	—
flake, bgs., c.l.....100 lbs.	3.10	-	—
l.c.l. .....100 lbs.	3.85	-	—
bbls., c.l.....100 lbs.	3.25	-	—
l.c.l. .....100 lbs.	4.00	-	—
powd., bgs., c.l.....100 lbs.	4.35	-	—
l.c.l. .....100 lbs.	5.10	-	—
bbls., c.l.....100 lbs.	4.50	-	—
l.c.l. .....100 lbs.	5.25	-	—
Sulphide, bgs., c.l., (20 tons), dlvd..lb.	.07½-		—
l.c.l., dlvd. E. or ex whse., Pac. cst..lb.	.07¾-		—
bbls., c.l., 20 bbls., c.l., (20 tons), dlvd.....lb.	.07¾-		—
l.c.l., dlvd. E. or ex whse., Pac. cst..lb.	.08	-	—
barium, pigment, bgs., c.l., dlvd..lb.	.03	-	—
l.c.l., dlvd. E. or ex whse. Pac. Cst..lb.	.03¼-		—
calcium pigment, bgs., c.l., dlvd..lb.	.03	-	—
l.c.l., dlvd. E. or ex whse. Pac. Cst..lb.	.03¼-		—

Yellow—Zirconium

Zinc, sulphide, magnesium, pigment,, bgs., c.l., dlvd..lb.	.05¼-		—
l.c.l., dlvd. E. or ex whse. Pac. Cst..lb.	.05½-		—
Sulphocarbolate, NF, bbls.....lb.	.24	-	.26
Zinc-ammonia chloride, dms., c.l., works..100 lbs.	5.15	-	—
l.c.l., works.....100 lbs.	5.50	-	—
Zinc-iron oxide, pigment, bgs., c.l., dlvd..lb	.05	-	—
l.c.l., dlvd., except Pac. cst..lb.	.05¼-		—
ex whse., Pac. cst...lb.	.05½-		—
Zirconium nitrate, kgs., works.lb.	3.00	-	4.00
Oxide, crude, 70-75%, grd., bbls., works..ton.	75.00	-	100.00
white, 98%, rgd., kgs., works, lb.	1.30	-	2.00

Synthetic Resins

and other

Branded Paint Materials

(Manufacturers' List Prices)

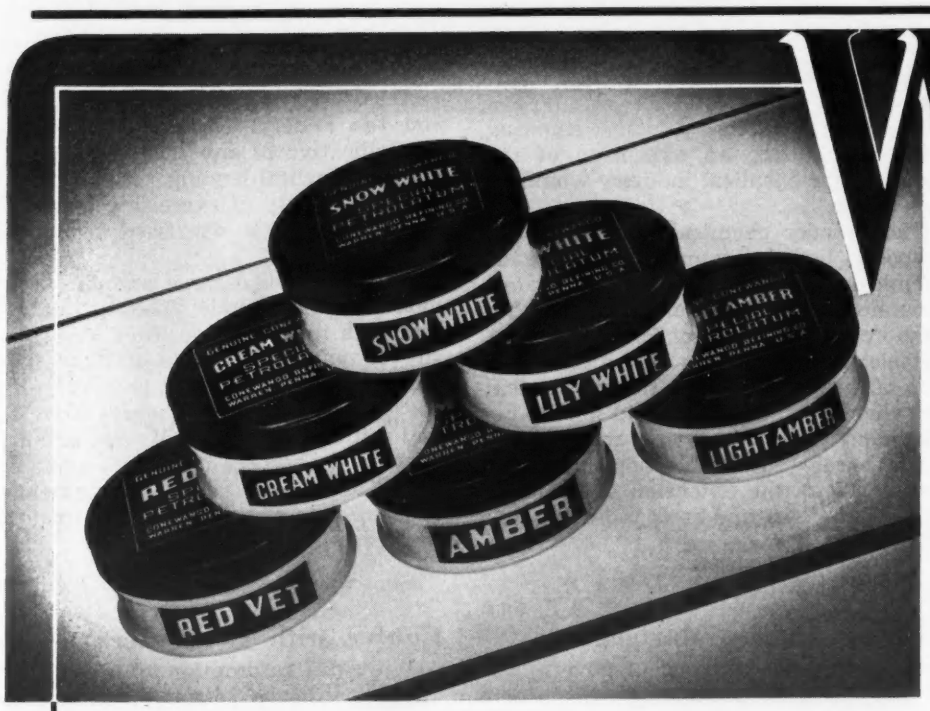
Note:—The list of prices previously printed weekly under the above heading is now printed once a month. The latest printing was in the Jan. 1 issue; the next printing will be in the Feb. 5 issue. Changes in prices—if any—made during the past week are noted in the report on the Paint, Varnish and Lacquer Materials Market, which begins on page 31.

Foreign Trade Rules

Information recently published by the Department of Commerce in foreign tariff and related trade regulations include the following:—

Bone Exports.—Brazil has prohibited the exportation of animal bones and phosphate fertilizer materials.

Philippine Invoices:—The Philippine customs authorities have requested exporters to the Philippine Islands to supply an additional copy of the commercial invoice for the purpose of facilitating the preparation of accurate import statistics.



WOULD YOU LIKE SAMPLES OF CONEWANGO'S NEW PETROLATUMS?

★ Conewango's new special-filtered petrolatums are different in that they have no admixture of distillates. *They are straight petrolatum as it comes from the crude.* ★ For this reason their viscosities, melting points, flash and fire offer definite compounding advantages. ★ We will gladly submit samples to any interested firm.

THE CONEWANGO REFINING CO.

WARREN PENNSYLVANIA

Oil, Paint and Drug Reporter

Founded October 18, 1871, by
William O. Allison

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Vol. 137 January 29, 1940 Number 5

Help Education to Help

Education can do much for industry. It is but reasonable to regard this service as a reciprocal return for what business can and should do for education. In these days of high technical requirements in industry and of need for more broadly trained management, business should regard as of prime importance the advising of education with reference to its needs, and it should not expect a measure of responsive service for which adequate support has not been provided.

Many technical schools could do far more to meet the needs of business for trained personnel in all its divisions if they had the money which such service requires. They have the instructional and advisory ability; they are abundantly supplied with promising material in their student bodies; but they must confine their efforts within all too narrow routine limits, because specialized endeavors cannot be provided for out of their limited funds. The income of a private teaching institution, especially of a technical school, from its tuition fees is meager indeed. It can do little beyond the ordinary—and not very much of that—without endowments of a general or a specific scholarship nature.

This condition is particularly true with respect to pharmacal schools, the need for which is inseparable from the welfare of the public. Some fifty of these schools have just been weighed and found worthy in their services to the drug industry and to the public. Many of these schools are badly in need of funds for adequate functioning. Some of the largest are in this category, are even facing a crisis.

Organized efforts are being made to relieve the unsatisfactory financial condition of pharmacal schools. Those who are engaged in this undertaking know well the loss that would result if these schools were to be closed, or even if their control were by necessity lost to those who have the proper conception of the high purpose and the humanitarian essentiality of pharmacal education. Even from a selfish viewpoint these efforts deserve the generous support of the drug industry.

Westward Ho for Chemistry

There is matter of much and diversified interest for the chemical industry in the governmental objective of a substantial ferrous metallurgical enterprise based on the relatively low-grade iron ore deposits in Pacific coast regions. Data which are coming to light on this subject in various governmental reports are deserving of study by the chemical industry because of their potential prophecy.

Development of the iron ore deposits in the Far West to a stage of steel production is desirable from several angles. Its possibility without costly governmental participation is open to commercial and technical question. If the investigations indicate that this development can be effected with no more relying on government than may be necessary to get cheap power, the undertaking should be assumed by business. There is no reason why government should be permitted to do the whole job or should be asked to subsidize at least the greater part of its doing. The undertaking either is economically worth while, or it is not; and only favorable economic appraisal can justify it.

It is possible that a new WPA project may be linked to that of a new iron and steel region. A proposal is now before Congress that unemployed miners be put to work prospecting on public lands. That might discover more cheap iron ore in the West, also more cheap coal—and it might start another gold rush.

Because of the important part that hydroelectric energy apparently would play in the contemplated enterprise, the coaltar chemical aspects of producing steel on the Pacific coast would not bear as large a proportion to the magnitude of the enterprise as applies in the long-active steel regions. But, it is doubtful that coke and gas could be wholly dispensed with in the primary smelting operations; hence an expansion of the basic coaltar chemical industry would be expectable.

The broader chemical interest in the proposal lies in connection with the chemicals used in the processes of ferrous metallurgy, especially in the higher stages of the finishing of fabricated steel, but also as basically as in the beneficiation of the ores. It is for this reason that the chemical industry should not be behindhand in respect of what may now be but a barely discernible opportunity to participate in the extension of the frontiers of the iron and steel industry.

—O-P-D—

Government by Mortgage

Advocacy of a scheme of governmental aid in the financing of small business is again becoming vigorous. This is true, not only of the sponsors of bills in Congress with such an object, but also of such detached financeering experts as the chairman of the Securities and Exchange Commission.

To judge from what the legislators and the SEC chairman are reported to have said on the subject, they do not wholly view their objective in the same light. The legislators appear to consider small business more as a matter of men; the SEC chairman looks upon the question as a matter of corporation finance. The arguments of the two are therefore difficult to coordinate, and this increases the doubt that lies in the mind of the average man as to the ultimate desirability, or even the necessity of the proposed assistance, which obviously would entail additional governmental spending—and taxing—at least for a while.

It is argued, on one hand, that the cost of marketing securities is too great for the small corporation to meet. This may be so. If it is, the reason lies in the reluctance of investors to put their money into an enterprise which, on the face of its records, lacks ability to grow to a remunerative size. There is a reason why certain small businesses are small; there is a reason why they cannot get adequate credit through the customary channels. Investors today pay more attention to such reasons than they did fifteen years ago.

In the arguments which rest upon the small businessman it is charged that, in his case, the Reconstruction Finance Corporation is no better than a private lending agency. It is informative to analyze the several meanings that may be given to the term, "better," in that comparison. There is a grave question whether any business, small or large, manufacturing or agriculture or distributing, is entitled to any loan or credit service which is better than that available from private agencies—if the term, "better," is interpreted as less exacting.

It is true to an extent that banking laws hamper the extension of credit on the basis of intangibles which every local banker knows offer greater security than is to be found in certain tangible assets. Legislation is desirable which would reduce these handicaps without relieving the banker of the responsibilities that he should assume. To shoulder upon the government the responsibility of both banker and borrower would be to carry the paternalistic theory far toward governmental bankruptcy. The experience of the Home Owners Loan Corporation and the Federal Housing Authority is not indicative of any extraordinary risk in governmental lending. It is indicative of the necessity of exercising at least as much care as is exercised by private lending agencies.

Bankers have a large amount of idle money on their hands. They are not content with this condition; they eagerly desire to make proper use of these investable funds. They might be glad to have the government give them a free rein and a full guaranty. But, would that be "better" in respect of the national welfare? Might it not carry government far into the field of business as a foreclosing mortgagee?

—O-P-D—

Confer with Consumers

With the resumption of Federal and State legislative sessions, the consumer movement is again getting prominent in the news. Food, drug, and cosmetic bills of the consumer-bureau type, consumer departments in State governments, official standards for all consumer goods—all are getting serious and substantial consideration.

Consumers' demands have grown beyond truthful and informative labeling and advertising. Consumers want to know the why of prices and the how of production. These things cannot be disregarded by business. They are signs of the times, indications of trends which are steadily growing in breadth and in momentum. Business would do well to admit consumers to its councils and to give attentive ear to their views.

1849

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Heavy Chemicals

New Business on Downgrade—Export Inquiries Slacken—Copper Sulphate Reduced, But Other Copper Salts Firm —Electrolytic Copper Lower—Tin Salts Easier

Buying of heavy chemicals underwent comparatively little change last week. Shipments remained fairly steady against contracts, but the appearance of new business was still on the downgrade, which indicated that after the inventory period consumers were content to mark time. Most factors anticipated a quiet period for the next few weeks, especially in view of the seasonal tapering off in some industries. There was no pressure for shipments as was the case a few weeks previous. The general price structure gave no evidence of weakness, and the changes were confined to metals and their derivatives.

A downward revision in copper sulphate provided the most significant change, and reflected the easiness in the basic metal. Despite the strong position of the market, and the active demand both here and for export, sellers were prompt in bringing the quotations in conformity with the lower copper price. However, prices for other copper salts were without change, sellers gave no indication of revising schedules at this time, since most business was booked heavily against contracts, and based on the higher metal costs. Straits tin resumed its downward trend, bringing about a further recession in anhydrous tetrachloride of tin.

Export inquiries have slowed down recently, although some items such as certain acids and alkalies were solicited in large quantities. Agricultural chemicals also displayed a dominant part. Most of the inquiries have a better basis than previously. Future commitments for the British and French were expected to be made by the recently organized joint Anglo - French purchasing board. This is particularly true for essential materials involving large quantities, which will be made direct from manufacturers and not through any intermediate channel such as brokers and agents.

Price Changes

Advanced

None

Reduced

Blue vitriol (copper sulphate), cryst., 15c. per 100 lbs.
Monohydrated, 20c. per 100 lbs.
Copper, electrolytic, ¼c. per lb.
Straits, tin, ½c. per lb.
tetrachloride, anhy., ¼c. per lb.

Comparative Values

Index numbers compiled from twenty-five typical chemicals on the basis of 100 for August 1, 1914, compare as follows:—

Last week.	Prev. week.	Last month.	Last year.
152.5	152.7	151.9	147.2

Index numbers compiled from twenty typical acids on the basis of 100 for August 1, 1914, compare as follows:—

Last week.	Prev. week.	Last month.	Last year.
99.0	99.0	99.0	99.6

Market news that may have developed after this report was sent to press will be found on page 4.

Alums.—Firm prices prevailed for ammonia, potash and soda alums. Potash chrome nominal. Demand steady, but lacks any broadening.

Alumina Hydrate.—Fair interest for light and heavy grades. Prices unchanged and firm.

Alumina Sulphate.—Movement of commercial and iron-free steady against contracts. Market position strong, and prices well sustained.

Ammonia, Anhydrous.—Market adhering to strictly seasonal trend. Fair export inquiry. Pricewise a firm tone governed transactions.

Ammonia, Aqua.—Major consumers exerted moderate demand. Quotations for carboys, drums and tanks firm.

Ammonia Bicarbonate.—Dealings of a routine character. No change in the prices.

Ammonia Bifluoride.—Interest confined to small quantities as a rule. Quotations without change.

Ammonia Nitrate.—Market position strong, prices unaltered. Good inquiry, and shipments steady.

Ammonia Oxalate. — Commitments limited to regular consumers. Market strong.

Ammonia Perchlorate.—Prices well maintained at levels established preceding period. Buying routine.

Ammonia Phosphate. — Technical material taken in modest quantities. Quotations the same, and unchanged.

Ammonia Silicofluoride.—Consumers displayed mild interest. There was nothing new to report in the prices.

Ammoniac, Sal.—Some improvement in statistical position, with production gradually catching up with demand. Prices unchanged and firm.

Antimony.—Metal quiet, spot price unchanged. Oxide and needle of antimony lack any new developments.

Arsenic.—Limited supplies of red, ranging from 17½c. to 18c. per pound. Seasonal movement of white for agricultural purposes. Prices firm.

Barium Salts.—Prices for carbonate, chloride, dioxide, fluoride and oxide firm. Nominal conditions prevailed for the chlorate, nitrate and hydrate, but quotations lacked any changes. Demand moderate.

Bleaching Powder.—Less active domestic and export inquiry, shipments fairly steady, and prices display firmness.

Blue Vitriol (Copper Sulphate).—Prices for crystals and monohydrated lowered 15c. and 20c. per 100 pounds, respectively. The reduction followed the easier trend in the basic metal. Car lot prices for 99 percent crystals $4.60 per 100 pounds at the works, with usual differentials for special sizes and smaller quantities; monohydrated dealer prices ranged from $9.15 to $10.15 per 100 pounds according to quantity.

Calcium Acetate.—Prices unchanged and firm. Demand only fair.

Calcium Chloride.—Good movement for ice control work. Call for concrete curing and other miscellaneous purposes continues satisfactory. Fair export inquiry. Prices unchanged.

Calcium Phosphate.—Call for technical routine. Prices were without change.

Carbon Tetrachloride.—Demand displayed no broadening, but interest was sufficient to keep position of market firm.

Chloropicrin. — Moderate inquiry, with shipments confined to modest quantities as a rule. Prices remain firm.

Cobalt Salts.—Prices for the acetate, carbonate, hydrate and oxide firm. Shipments limited to regular consuming channels for normal requirements as a rule.

Copper.—All leading producers reduced price to 12c. per pound. Scrap price lowered ½c. to basis of 11½c. for electrolytic. Domestic demand

Current prices on heavy chemicals are given in the alphabetical list of prices beginning on page 7

light. Export copper ranged from 11½c. to 12⅛c. f.a.s. N. Y. Outside market around 11¾c. per pound. Stocks of refined in United States on December 31 were 159,485 tons, according to Copper Institute. This compares with 316,543 tons on hand on July 31, last published figures and 289,755 tons at the close of 1938.

Copper Salts.—Despite reduction in metal, prices for the acetate, carbonate, chloride, cyanide, nitrate and oxides of copper failed to change. Sellers well sold ahead against contracts.

Copperas.—Situation displayed little change. Demand sufficient to absorb available offerings, and market was firm.

Fluorspar. — Domestic prices well maintained. No change in imported material. Business only moderate.

Glauber's Salt.—A steady to firm price tone governed dealings. Consumers limited commitments to moderate proportions.

Lead Acetate.—Trading lacked any new feature, and dealings were routine. Prices ruled unchanged.

Lead Nitrate.—Consumers entered market for necessary quantities. Prices were without change and firm.

Lime.—Quotations were held at previous levels, with a steady to firm tone prevalent. Shipments were below the preceding month, but fairly steady.

Magnesite.—New business remained spotty. No new price developments in domestic and imported material.

Manganese Dioxide.—Contract withdrawals made up practically all the business, with little spot offerings. Prices continued firm.

Nickel Salts.—No change in prices for the chloride, oxide and sulphate. Shipments only moderate to principal consuming channels.

Potash Carbonate.—Demand continued to keep production at peak levels. Position of calcined still tight. Little offered for export. Prices firm.

Potash, Caustic.—Market position remains strong, with demand and shipments active. Prices very firm. In January 15, 1940, issue it was incorrectly stated that exports from Germany during 1938 totaled 8,273 tons, against 9,946 tons in 1937. In 1938 total imports were only 486 short tons. Imports for the first nine months last year totaled 268 tons, of which Germany supplied 222 tons and Sweden 46 tons. Steady increase in domestic production during recent years has adversely affected imports.

Potash Chlorate.—Supplies adequate to take care of regular consumers' requirements. Prices unchanged. Exports from Germany in 1938 totaled 8,273 metric tons, against 9,946 in 1937. The United States accounted for 63 percent of the 1938 volume.

Saltcake.—Market remains nominal, Some imported material arriving. Domestic material well taken.

Saltpeter.—Sellers report progress in clearing up backlogs, with new business tapering off. Export inquiry active. Prices hold firm.

Soda Acetate.—Transactions routine. Prices unchanged, and tone remains firm.

Soda Antimoniate.—Steady to firm price tone. Demand not very active.

Soda Ash.—Buying fairly steady, but new business lacks expansion. Export inquiry active, but usually restricted to normal channels. Prices continued firm.

Soda Bicarbonate.—Moderate interest against contracts. Fair export inquiry. Prices rule firm.

Soda Bisulphite. — There was no broadening in the demand, but withdrawals sufficient to keep market in satisfactory position.

Soda, Caustic.—Basic consumers displayed caution in making new commitments, and business tapered off from the more favorable levels. Export interest active. Prices firm.

Soda Chlorate.—Some seasonal pickup looked for in agricultural uses, industrial withdrawals not especially active. Prices well sustained.

Soda Cyanide.—Business spotty, with volume leveling off. Prices fully retain firm tone.

Soda Hydrosulphite.—Steady interest from regular consumers against contracts, with spot position still tight. Prices continued firm.

Soda Metasilicate. — Demand from laundries, bottling plants and other industrial sources satisfactory. Price-wise a firm tone prevailed.

Soda Nitrite.—Position of market remained favorable. Moderate buying interest, and prices without change.

Soda Oxalate.—Firm price tone, with demand limited to regular consuming channels.

Soda Phosphate.—Various consumers entered market for necessary replacements, with no broadening noted. Good export inquiry. Prices were firm.

Soda Silicate.—Shipments were moderately active, but without any tangible improvement. The call for export continued brisk. Prices the same.

Soda Silicofluoride.—Domestic offerings confined principally to contracts. Supplies of imported not large, and quotations ranged from 5¾c. to 6¼c. per pound.

Soda Sulphide.—Major consumers supplied a moderate call. No change occurred in the prices.

Strontium Salts.—There were no further price developments in the technical grades of carbonate and chloride. Quotations for nitrate were firm. Business was irregular.

Sulphur, Refined.—General demand was more moderate, with most factors content to order closer to production requirements. Prices unchanged.

Tin Salts.—An easier tone continued to prevail in the market for tin derivatives. The Straits metal declined to the 45½c. per pound level, and brought about another ¼c. reduction in anhydrous tetrachloride of tin; tin crystals, tin oxide and anhydrous stannous chloride were unchanged.

Zinc Chloride.—While demand did not expand, usual consumers provided sufficient interest to retain the firm position prevalent for many weeks.

Acids

Buying of various mineral acids gave further evidence of subsiding last week. The decline apparently reflected the disposition of consumers to limit commitments to nearby requirements, and the normal seasonal tapering in some basic consuming industries operations. Price position remained firm. Oxalic and formic were in a strong position, with supplies of the former at low levels.

Acetic.—Demand continued to recede from high levels, but sufficient to give the market a steady tone.

Battery.—Prices were well sustained, but buying was on a lesser scale as a whole.

Chromic.—Buying was adequate to keep prices in a firm position.

Formic. — Consumers followed a moderate purchasing policy. Market position was strong, and prices firm.

Gallic.—There was nothing new to report in this direction, with transactions modest and prices nominal.

Hydrofluoric.—A fair inquiry prevailed, with buying held to necessary quantities. Prices were firm.

Lactic.—No change occurred in the various grades. Business was spotty.

Muriatic.—Prices ruled firm. Good export inquiry, with domestic buying steady.

Nitric.—Market position remained strong. Interest was moderately active.

Oxalic. — Little improvement occurred in the statistical position with most sellers limiting commitments to regular consuming channels. Prices very firm.

Phosphoric.—Movement of technical grades not particularly large. Prices well sustained.

Sulphuric.—Demand gave further evidence of subsiding last week. Withdrawals against contracts were limited to nearby production requirements, and less pressure was applied for shipments than heretofore. Prices gave no indication of weakness, however, and the various grades retained a firm tone.

Baltimore, Jan. 24.—The market for sulphuric acid was reported to be without special activity during the past week. It was indicated by persons familiar with the developments in the business that a somewhat quieter feeling prevailed, and that developments had not been of a character to give the acid trade a different trend from that noted of late. According to intimations the production of acid has sufficed to take care of the cur-

Current prices on heavy chemicals are given in the alphabetical list of prices beginning on page 7

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rent requirements of consumers, so that there has been an absence of anything like pressure upon the market. Prices still around $12 per ton for 60 degree and $15 per ton for 66 degree acid. Oleum is steady around $18 per ton for 20 percent supplies.

Insecticides

The market for agricultural insecticides and fungicides gave little indication of emerging from the lethargy prevailing for the past several weeks. Consumers were still marking time before making any sizable commitments. Perhaps, in a few weeks business will be stimulated by dealer and distributors stocking up for the active season. Export inquiry was brisk. Prices were without any feature, but the general tone held firm.

Grasshoppers are a much less serious crop threat this year than in 1939 or 1938, according to the chief of the Bureau of Entomology and Plant Quarantine. The recently completed grasshopper egg survey, on which the forecast is based, shows a marked decrease in hopper numbers and a shift in the areas of infestation away from those where federal-state control operations were conducted last year. Much of the control work of the coming season will have to be directed against the migratory hoppers expected to hatch in large numbers from eggs laid last fall in range, idle, and abandoned land in the Great Plains.

More than 153,000 tons of poison bait were spread over about 25 million acres in 24 states, through the cooperative efforts of the U. S. Department of Agriculture, the States, local agencies and 235,000 farmers. Crop damage by grasshoppers in 1939 was estimated at $48,000,000 and is materially less than in any year since 1934, when these insects became a national problem and the Federal-State control program was started.

Bordeaux Mixture. — Prices unchanged. Little interest shown from domestic sources.

Calcium Arsenate. — Market displayed no activity as yet, but consumers were expected to make commitments shortly. Prices well maintained.

Lead Arsenate. — Quiet. Seasonal pickup expected from dealers and distributing channels. Prices ruled firm.

European Saltcake Cartel Dissolved

The European saltcake cartel, of which Chile was an adherent insofar as supplies derived as a co-product of soda nitrate were concerned, has been dissolved, according to the office of the American commercial attache in Santiago.

Current high costs of transporting saltcake to United States or Europe, with comparatively low prices in consuming markets, have made it uneconomical to recover saltcake from brines employed for soda nitrate production and production has been suspended. Several enterprises continue to mine natural saltcake on a small scale.

Baltimore Insecticide Firms Not Merged in N.Y. Company

Baltimore, Jan. 24, 1940

The report of the formation of the Insecticide Corporation of America, Medina, N. Y., to manufacture insecticides, fungicides, seed-treating materials, and fertilizers, in the REPORTER for January 22, is declared by E. B. Pinkerton, vice-president of the Miller Chemical & Fertilizer Corporation, here, to be in error as to the statement that the Miller corporation and the Central Chemical Corporation, Hagerstown, Md., will be merged. Mr. Pinkerton says that, while the Miller corporation and the Central corporation will have stockholder interests in the new insecticide manufacturing concern, they will continue to operate as separate entities, and that neither they nor the stockholders in the Medina area will control.

W. Newton Long, who is not mentioned as an officer of the new company or as a member of the board of managers, will continue as president of the Miller corporation, and the other officers of that company as well as those of the Central Chemical Company, will remain as they are.

Hollwedel Joins Kingston Co.

Charles N. Hollwedel, long prominently identified with sales of industrial chemicals, has joined the Kingston Chemical Company, manufacturers' agent, this city. Mr. Hollwedel started his business career with the Grasselli Chemical Company in 1916, leaving in 1928 to join the Warner Chemical Company, and remained with that organization until 1936, when he was named New York branch manager for Joseph Turner & Co. The Kingston Chemical Company, headed by Charles Cossi, handles a wide line of chemicals, including toluol, xylol, benzol copper sulphate, and zinc sulphate.

Tonerde, Inc., Formed

Tonerde, Inc., 67 Broad street, this city, has been formed to import and export coaltar chemicals and ores. The new company will represent in the United States the Tonerde Chemical Company, The Hague, Netherlands. Officers of the company are:—President, Dr. Albert Sundheimer, formerly affiliated with Tonerde organizations abroad; vice-president, Theodore Katzenstein; and secretary-treasurer, S. M. Schwartschild, formerly head of a company bearing his name which previously acted as the representative in this country for the Tonerde interests.

Jones & Laughlin Steel Corporation has reported to the Securities and Exchange Commission that it has paid off the remaining outstanding $750,000 of serial bank notes, due April 7, 1940.

Trade Briefs

Eugene Suter & Co., importer and exporter, is now located in 468 Fourth ave., this city.

California Spray Chemical Corporation has placed in operation a dust mixing plant at Richmond, Calif., similar to those the company has in San Jose, Fresno and Whittier, Calif.

Soap importers in Haiti, who have been purchasing their supplies from countries in Europe are finding these sources unreliable at present, and are looking to the United States for connections.

Prof. C. S. Williamson, jr., head of the school of chemical engineering at Tulane University, has been elected president of the Louisiana-Mississippi section of the American Institute of Chemical Engineers.

National Match Syndicate financed by Japanese match industrial interests for distribution in China of Japanese manufactured matches was recently announced. The head office is to be established in Tientsin.

Celotex Company, this city, stockholders will vote January 30 on an amendment to the by-laws providing that the total number of directors should consist of nine, the number now serving, instead of eleven as provided.

Dr. C. H. Kunsman, long active in research work in the U. S. Department of Agriculture, has been named chief of the physiochemical and analytical division of the department's western regional research laboratory at Albany, Calif.

Zophar Mills, Inc., asphalts and other industrial materials, Brooklyn, distributed a 1940 calendar which is devoted to baseball history. The front page has a picture of a baseball game and pictures and data of a number of stars. On the reverse are statistical records of baseball performances running back over the century of the pastime to 1839.

Arthur E. Ury, who has been a member of the advertising staff of Owens-Illinois Glass Company, Toledo, for several years has been transferred to the company's merchandising division. He will serve as assistant to Howard A. Trumbull, merchandising manager. Walter D. Plummer, of the advertsing division will take over Mr. Ury's former duties.

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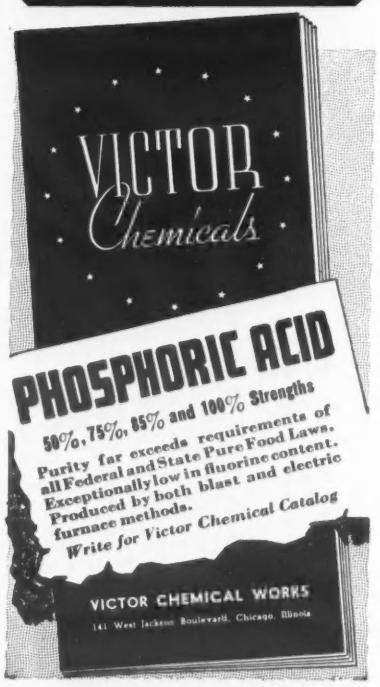
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Dyestuffs, Textile and Leather Chemicals

Higher Freight Rates Bring Sharp Advance in Sumac Prices —Valonia and J1 Myrobalans Lower—Wattle Bark Firmer —Zinc Dust Easier—Corn Derivatives Nominal

With few exceptions, demand for dyestuffs, textile and leather chemicals lacked any improvement last week. In the chemical division bichromates stood out as an active feature, with spot and export material difficult to obtain. Producers, however, succeeded in reducing backlogs to domestic consumers on contract. Aside from this, buying of other chemicals, dyestuffs and tanning materials were confined to necessary replacements. Most consumers were still carrying rather high inventories, and did not wish to make further commitments. Price change revolved around tanning materials where irregular movements were the rule.

Sumac provided the widest price move, the ground and leaf material were quoted at much higher levels, with most of the increase accounted for by higher freight rates. Valonia beards and cups were slightly easier as was J1 myrobalans. East African wattle bark was firmer. A leading seller of corn derivatives, including dextrin and starch, was still making shipments at the prices prevailing early in December before the market firmed, and probably will continue until early part of February. Consequently, current schedules were on a nominal basis. Zinc dust was fractionally lower, conforming with the recession in the basic metal.

Chemicals

Alumina Acetate.—No new developments, demand routine, and prices firm.

Alumina Chloride.—Usual consumers provided a moderate call. Prices ruled unchanged.

Ammonia Acetate.—Demand failed to expand. Quotations were unaltered.

Ammonia Bichromate.—Routine interest. Prices ruled firm.

Antimony Salt.—Offerings limited and demand small. Prices strictly nominal.

Chrome Acetate.—Buying spotty. Prices retained at former levels.

Potash Bichromate.—Contract withdrawals steady, spot offerings limited. Export inquiry brisk, but little available. Prices very firm.

Potash Prussiate.—Supplies of red limited and prices nominal. Buying of yellow not very active. Prices firm.

Soda Bichromate.—Inquiry active, although new business slackened. Most withdrawals against contracts. Export demand good. Prices firm.

Zinc Dust.—Quotations declined ¼c., making car lots, 7½c. per pound and less car lots 8c. per pound. Reduction reflected decline in metal. Business only fair.

Dyestuffs

Annatto.—Withdrawals small. Prices the same.

Hypernic.—Usual consumers exerted a mild interest in this direction. Prices held firm.

Indigo.—Transactions were not very broad. Prices were well maintained.

Logwood.—Trading lacked any particular feature, with dealings routine. Prices were without alteration.

Madder, Dutch.—Quiet. Prices were in conformity with those prevailing previously.

Turmeric.—Offerings were limited, and demand dull. Prices nominal.

Sizing Materials

Albumen, Blood.—Shipments steady to usual consumers. Market position strong, and prices firm.

Albumen, Egg.—Price tone better, reflecting recent strength in egg market as a result of cold weather. Business only fair.

Corn Sugar.—Buying held close to production needs. Prices unchanged. Harvest 1939 corn crop brought in grain of the best quality in many years according to Department of Agriculture. Of the total inspected 90 percent graded No. 2 or better. Only 68 percent of 1938 crop inspected at markets graded as high.

Price Changes

Advanced

Sumac, ground, $17 per ton
Leaf, $14 per ton
Wattle bark, E. African, $1 per ton

Reduced

Myrobalans, J1, $1.50 per ton
Valonia, beards, $2 per ton
cups, $1 per ton
Zinc dust, ¼c. per lb.

Comparative Values

Index numbers compiled from nineteen typical dyestuffs on the basis of 100 for August 1, 1914, compare as follows:—

Last week.	Prev. week.	Last month.	Last year.
147.4	147.1	148.5	147.0

Market news that may have developed after this report was sent to press will be found on page 4.

Dextrin, Corn.—Prices were nominal, since shipments will be made not later than February 10th at levels in effect before last advance. Demand fair.

Egg Yolk.—A firm price tone prevailed in domestic material, and prices held at levels established a short time previous. Buying not active.

Starch, Corn.—Sellers making shipments at prices in effect before last advance until February 10. No expansion in business.

Starch, Wheat.—Prices were the same, and tone about steady. Moderate buying interest.

Tapioca Flour.—Consumers pursuing more cautious purchasing policy. Prices steady to firm.

Tanning Materials

Chestnut Extract.—Buying moderate, with little improvement. Prices unchanged and firm.

Cutch.—Shipments steady against contracts. Prices firm.

Gambier.—Arrivals well absorbed, and spot material small. Quotations nominal.

Mangrove Bark.—Market underwent no change. Demand fair.

Myrobalans.—Price for J1 $1.50 lower at $32 per ton, J2 held at $27.50. Moderate demand.

Quebracho.—Prices remain firm. Buying held to nearby needs.

Sumac.—Sharp advance in prices for ground and leaf, both quoted at $98, which reflected increased freights to a large extent.

Valonia.—Quotations for beards $2 lower at $52, while cups declined $1 ranging from $38 to $40 per ton. Demand fair.

Wattle Bark.—East African material advanced $1 to $38 per ton. South African unchanged at $39 per ton. Transactions moderate.

Current prices on dyestuffs and tanstuffs are given in the alphabetical list of prices beginning on page 7

Sweetpotato Starch Output Expanded

The rated capacity of the farmers' cooperative sweetpotato starch plant in Laurel, Miss., was nearly doubled for the 1938 season, according to Dr. Henry G. Knight, chief of the bureau of agricultural chemistry and engineering, in the first annual report of that division of the United States Department of Agriculture. The bureau gave further technical assistance to the cooperative enterprise, and the plant processed about 165,000 bushels of sweetpotatoes during the 1938 season, producing 1,700,000 pounds of commercial starch.

The major advance was made in the introduction of minor mechanical changes which enabled the starch to be more quickly dried.

With respect to the future of the sweetpotato starch industry and its technologic progress, Dr. Knight said:—

The outlook for the 1939 season was most favorable, and production was expected to reach the maximum season's capacity of the factory operating at its increased rate. Sweetpotato starch was found to offer distinct advantages in the baking and confectionery industries. The textile and laundry industries are continuing to use sweetpotato starch with success.

A new and rapid polariscopic method was developed for the determination of starch in sweetpotatoes and starch-factory products, and was used for control work at the Laurel starch plant with satisfactory results. A study in cooperation with the food research division indicated a means of controlling microorganisms capable of causing fermentation in starch-bearing factory liquors in warm weather. Investigation indicated that starch finished at pH 6.0 to 8.0 is the most stable during storage.

A process designed to recover sweetpotato solubles and to simplify the starch-extraction process in small commercial plants was developed on a laboratory scale. Pilot-plant dehydration studies were started in connection with the problem of storing sweetpotatoes for continuous operation of a starch plant. The process used consists of a preliminary chemical treatment of the ground sweetpotatoes, removal of a large proportion of the water by pressing or centrifuging, and final drying with heat. Lime was found to be as effective as sulphur dioxide or carbon tetrachloride for facilitating removal of juice by mechanical means. The use of lime is advantageous because lime is cheap and, being noncorrosive to iron, it makes unnecessary the employment of more expensive metals for equipment. A number of different types of commercial presses and centrifuges were tried out to determine their relative worth for dewatering ground sweetpotatoes. It is believed that there will be a rapid expansion in the sweetpotato starch industry in the South if successful methods of storing raw material and recovering additional by-products can be found.

It has long been realized that the success of a sweetpotato starch industry is largely dependent on growing the crop cheaply. Experiments with small-scale equipment now in use for harvesting sweetpotatoes resulted in mechanical improvements and in great saving of time for picking up sweetpotatoes and transferring them to trucks. Equipment to remove vines from potato rows, to be used in connection with large-scale harvesters, is being developed. Large-scale growing operations were investigated, beginning with the preparation of the seedbed and proper placement of plants to insure favorable conditions for use of a harvesting machine (combination digger and loader, as used for white potatoes). Experiments were also made on reduction in number of plants per acre, different planting patterns, and fertilizer placement. This investigation, which is conducted in cooperation with the Mississippi Agricultural Experiment Station and the division of mechanical equipment of this bureau, is expected to result in far-reaching changes in the agronomic handling of the sweetpotato crop.

International Agricultural Corporation annual meeting has been adjourned until February 20.

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Coaltar Chemicals

New Business Continues to Recede—Price Tone Firm—Phenol, Cresylic Acid and Toluol Position Improves—Refined Naphthalene Active — Colors Quiet

Business in the market for coaltar chemicals was fairly steady last week. Reports were general, however, that a recession occurred in new buying. While production continued at a comparatively high rate, most of the material moved direct to consuming channels. Shipments have caught up with demand in most products, and about the only exceptions were phenol, toluol, certain grades of cresylic acid and intermediates. The letup in purchases was not sufficient to bring about any specific weak spots in the price structure. The pressure for prompt shipments was also lessened, and most sellers welcomed the breathing spell.

Shipments of phenol moved steadily against contracts to major consuming channels, and sellers made progress in clearing up heavy backlogs. Inquiry for export was fair, but offerings were negligible. Certain grades of cresylic acid were still tight, and difficult to obtain on spot. Offerings of imported were small, with prices well sustained. Toluol position remained strong, despite some let up in demand from domestic sources, the call for export was active. A better movement of refined naphthalene was uncovered, which reflected seasonal accumulations from jobbing channels. Nothing new developed in the crude, quotations for imported were maintained at firm levels.

Intermediate, acid and color shipments were steady. Sellers were still endeavoring to cut down backlogs in several important intermediates. Current demand was tapering off, sufficiently to enable sellers to scale down their backlogs. A good inquiry prevailed for export, but not a great deal was available. Buying of colors displayed further evidence of subsiding. Canada remained a dominant figure in the export market.

Price Changes

Advanced
None
Reduced
None

Comparative Values

Index numbers compiled from twenty typical coaltar products on the basis of 100 for August 1, 1914, compare as follows:—

Last week.	Prev. week.	Last month.	Last year.
127.3	**127.3**	**127.3**	**125.6**

Market news that may have developed after this report was sent to press will be found on page 4.

Basic Products

Benzol.—A fairly steady interest prevailed. Buying, however, was below the levels recorded during the latter part of last year. Production remained at comparatively high levels, but demand was adequate to maintain the firm position of the market. Export inquiries reached here in moderate volume, although actual shipments were not large.

Carbazole.—Dealings were strictly routine. No change occurred in the prices, and the tone of the market was firm.

Coaltar.—Shipments moved to regular channels against contracts. Pricewise no new developments occurred.

Creosote Oil.—Consumers exerted sufficient interest to keep market in a firm position. Most of the transactions represented shipments against contracts. Imports were not large.

Cresols.—Spot position was very firm, and offerings were not large. Withdrawals mostly constituted routine shipments against contracts. Prices were without change.

Cresylic Acid. — Sellers reported progress in catching up with backorders, but some grades of acid were still in a tight position. Shipments were steady, with new business slower. Quiet conditions prevailed for imported grades, and offerings were small. Prices were nominal and about unchanged.

Naphthalene. — There was some evidence of seasonal pickup for the refined grades. There was nothing new to report for the domestic crude, with transactions routine. Prices were firm. Only a fair demand existed for imported crude, and prices ranged from $2.90 to $2.95 per 100 pounds.

Oil, Shingle Stain.—Trading was routine in this direction. Sellers adhered to quotations in force previously.

Phenol.—Shipments moved steadily to major consuming channels. Much progress was reported in clearing up backlogs. A fair inquiry prevailed for export, but offerings were small. Pricewise a firm tone prevailed.

Pitch, Coaltar.—Little feature to the dealings, with commitments held close to nearby needs. No change was disclosed in the quotations.

Pyridin — Market position unchanged. Shipments moved direct from production to consumers. Quotations were the same and very firm.

Solvent High-Flash.—Trading was on a moderate scale. A firm price tone governed the dealings.

Tar Acid Oils.—No new developments transpired, and demand was along seasonal lines. Prices were well sustained.

Toluol.—The market continued well sold up. Shipments against contracts were maintained at a steady pace, but spot offerings were negligible. Active inquiry for export still prevailed, with offerings held to a minimum.

Xylol.—A firm price tone characterized the trading. Withdrawals against contracts were sufficient to keep the market in a strong position. Export inquiry only fair.

Chicago Coaltar Bases

Firm market conditions continue to prevail in coaltar bases. Benzol has been moving quite well. Despite the continued high rate of supply, there seems to be no large accumulation of material pressing for shipment, orders having been sufficient to keep the market fairly steady. Other products are reported ordered out rather well. Ruling prices exclusive of tax are:—Benzol, 90 percent, 16c. to 17c. per gallon; motor benzol, 11c. to 11½c.; toluol, 25c.; 10-degree xylol, 30c.; solvent naphtha, 27c.; creosote oil, grade 1, 13½c. to 14c.

Coaltar Acids

Anthranilic.—Prices unchanged. Demand for refined and technical remains routine.

Broenner's.—Spot and contract withdrawals steady. Prices were firm.

Cleve's.—Market lacked new developments, with demand about the same, and prices without alteration.

Fumaric.—Consumers exerted moderate interest for nearby needs. Prices well sustained.

Gamma.—Shipments moved steadily, but new business was somewhat slower. Prices ruled firm.

Laurent's.—There was no evidence

Current prices on coaltar products are given in the alphabetical list of prices beginning on page 7

of broader buying, but demand was adequate to keep market position satisfactory.

Maleic.—Commitments in the spot market and against contracts moderately active, but interest was not expanding to any degree. Prices were unchanged.

Picric.—Strong price tone, and transactions were steady.

Picramic.—Little change in the character of business, and firm prices governed the dealings.

Succinic.—Dealings were about routine. No change developed in the quotations.

Sulphanilic.—Firmness characterized trading. Demand, while not so active, was sufficient to keep shipments steady.

Other Intermediates

Alphanaphthol.—Consumers continued to display steady interest for moderate quantities. Prices held firm.

Anilin.—Shipments against contracts were fairly steady. Prices were in conformity with those prevailing previously.

Anthraquinone.—Prices were firm. Demand was held to moderate proportions as a rule.

Benzidin Base.—Buying was slightly slower, but sufficient to keep market position satisfactory.

Betanaphthylamine.—There were no new developments of importance. Prices were the same, and demand was routine.

Diethylanilin.—Business was steady, and prices retained firm tone.

Dimethylanilin.—Sellers report progress in scaling down back orders. Shipments steady, and prices were firm.

Dinitrobenzene.—Spot and contract shipments hold up well. No change disclosed in the quotations.

Dinitrochlorobenzene.—Firm price tone. Dealings were moderately active.

Dinitrophenol.—Usual consumers provided a fair buying interest. Prices were without alteration.

—Continued on page 30

Thompson Installed As C.S.A. President

De Witt Thompson, an assistant manager of sales for the Mathieson Alkali Works, Inc., was formally installed as president of the Salesmen's Association of the American Chemical Industry, at a luncheon-meeting in the Chemists' Club, this city, January 23. He succeeds Joseph Wafer, of the Industrial Chemical Sales Division of the West Virginia Pulp & Paper Company.

De Witt Thompson

Other officers installed were:—Vice-president, Walter Merrill, of Joseph Turner & Co.; treasurer, C. O. Lind, of the Dow Chemical Company; and secretary, J. Furman, of Merck & Co. Newly elected members to the executive committee were:—William Weed, of the Niagara Alkali Company; R. Gould, of the Heyden Chemical Company; and W. T. Short, of Wishnick-Tumpeer, Inc.

Chairmen of the various committees are:—Auditing, Ira Vandewater, of R. W. Greef & Co.; entertainment, P. J. LoBue, of Joseph Turner & Co.; membership, J. J. Kerrigan, of Merck & Co., and publicity, W. J. Murphy, of *Chemical Industries.*

Federal Chemical Names C. T. Brown Vice-President

Claude T. Brown has been named vice-president in charge of sales and purchases for the Federal Chemical Company, Louisville, Ky. He replaces the late Arthur S. Key, who died January 14.

Bids Wanted

Aluminum Paste:—4,600 pounds; Supply Officer, Naval Aircraft Factory, Philadelphia, Pa.; requisition 502-1987, opening February 2.

Ammonia Chloride:—4,000 pounds; Commanding Officer, Chemical Warfare Service, Edgewood Arsenal, Md.; procurement 468, opening February 2.

Hydrate:—4,500 pounds; Contracting Officer, Materiel Division, Army Air Corps, Wright Field, Dayton; procurement 982, opening February 7.

Perchlorate:—5,152 pounds; Commanding Officer, Chemical Warfare Service, Edgewood Arsenal, Md.; procurement 468, opening February 2.

Chalk:—4,000 pounds; Commanding Officer, Chemical Warfare Service, Edgewood Arsenal, Md.; procurement 468, opening February 2.

Hexachlorethane:—30,000 pounds; Commanding Officer, Chemical Warfare Service, Edgewood Arsenal, Md.; procurement 468, opening February 2.

Naphthalene:—30,000 pounds; Quartermaster Supply Officer, Army Base, Brooklyn, N. Y.; procurement 626-217, opening February 6.

9,200 pounds; Quartermaster, San Antonio General Depot, Fort Sam Houston, Tex.; procurement 503-157, opening January 30.

Paris Green:—7,500 pounds; Quartermaster, Marine Corps, Washington; schedule 563, opening February 2.

Pitch, Pine:—2,000 pounds; General Purchasing Officer, Panama Canal Zone, Washington; schedule 3869, opening February 7.

Potash Bichromate:—3,825 pounds; Contracting Officer, Materiel Division, Army Air Corps, Wright Field, Dayton; procurement 982, opening February 7.

Bromide:—650 pounds; Contracting Officer, Materiel Division, Army Air Corps, Wright Field, Dayton; procurement 982, opening February 7.

Nitrate:—2,800 pounds; Contracting Officer, Materiel Division, Army Air Corps, Wright Field, Dayton; procurement 982, opening February 7.

Prussiate, Red:—1,200 pounds; Contracting Officer, Materiel Division, Army Air Corps, Wright Field, Dayton; procurement 982, opening February 7.

Soda Ash:—10,000 pounds; General Purchasing Officer, Panama Canal Zone, Washington; schedule 3869, opening February 7.

18,900 pounds; Contracting Officer, Materiel Division, Army Corps, Wright Field, Dayton; procurement 982, opening February 7.

Bichromate:—10,800 pounds; Contracting Officer, Materiel Division, Army Air Corps, Wright Field, Dayton; procurement 982, opening February 7.

Chromate:—2,056 pounds; Contracting Officer, Materiel Division, Army Air Corps, Wright Field, Dayton; procurement 982, opening February 7.

Soda Cyanide:—4,000 pounds; Contracting Officer, Materiel Division, Army Air Corps, Wright Field, Dayton; procurement 982, opening February 7.

Metasilicate:—19,800 pounds; Contracting Officer, Materiel Division, Army Air Corps, Wright Field, Dayton; procurement 982, opening February 7.

Phosphate:—30,000 pounds; Quartermaster Depot, 1819 W. Pershing Road, Chicago; procurement 199-191, opening January 30.

80,600 pounds; Treasury Department, Procurement Division, Washington; procurement 7487-53, opening January 31.

2,000 pounds; Quartermaster, Marine Corps, Washington; schedule 563, opening February 2.

31,800 pounds; Contracting Officer, Materiel Division, Army Air Corps, Wright Field, Dayton; procurement 982, opening February 7.

Sulphate, Anhydrous:—19,900 pounds; Contracting Officer, Materiel Division, Army Air Corps, Wright Field, Dayton; procurement 982, opening February 7.

Sulphuric Acid:—28,861 pounds; Contracting Officer, Materiel Division, Army Air Corps, Wright Field, Dayton; procurement 982, opening February 7.

Titanium Barium, Dry:—6,000 pounds; General Purchasing Officer, Panama Canal Zone, Washington; schedule 3869, opening February 7.

20,000 pounds, in oil; General Purchasing Officer, Panama Canal Zone, Washington; schedule 3869, opening February 7.

Turpentine:—8,000 gallons; General Purchasing Officer, Panama Canal Zone, Washington; schedule 3869, opening February 7.

Zinc Dust:—25,000 pounds; Commanding Officer, Chemical Warfare Service, Edgewood Arsenal, Md.; procurement 468, opening February 2.

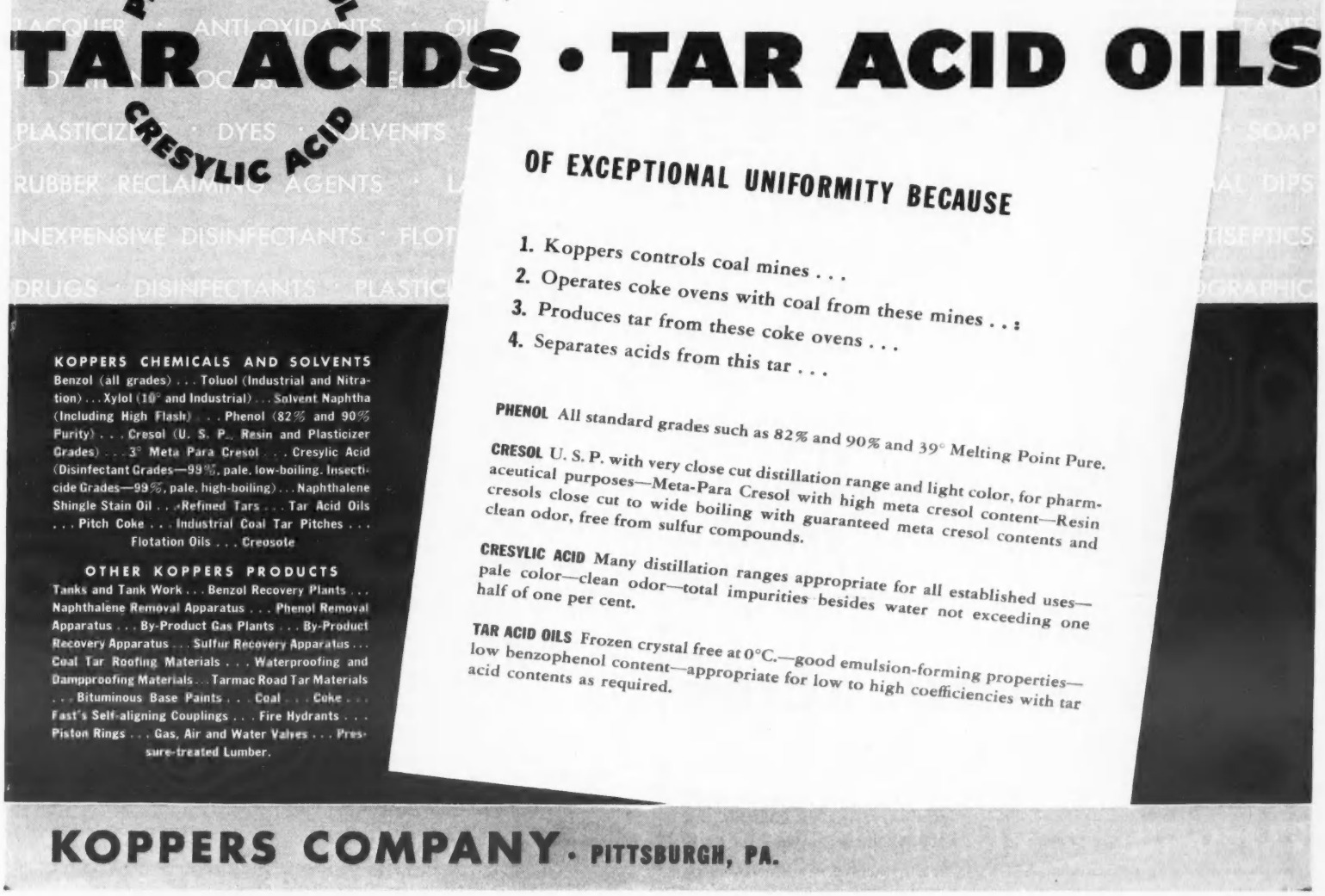
Contracts Awarded

Acetylene:—35,000 cubic feet; awarded to the National Cylinder Gas Company, Chicago, by the Army Engineers Corps, Pittsburgh, at 1.95c. per cubic foot; procurement 378, opened December 26.

Cadmium Salts:—3,000 pounds; awarded to the Belmont Smelting & Refining Company, Brooklyn, by the Picatinny Arsenal, Pa., at 36c. per pound; procurement 618, opening November 17.

Dinitrotoluene:—200,000 pounds; awarded to E. I. duPont de Nemours & Co., Wilmington, by the Picatinny Arsenal, N. J., at 14c. per pound; procurement 462, opened November 2.

Dibutyl Phthalate:—61,000 pounds; awarded to E. I. duPont de Nemours & Co., Wilmington, by the Picatinny Arsenal, N. J., at 19.5c. per pound; procurement 459, opened November 1.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Coaltar Chemicals

Other Intermediates

—*Continued from page 29*

Dinitrotoluene.—Position of market remained strong. Regular consumers were making fair size withdrawals.

G. Salt.—The market lacked any feature, and trading was routine.

Metaphenylenediamine. — Prices were well maintained. Transactions were largely confined to normal channels.

Metatoluyenediamine. — Usual consumers provided a steady call. Prices failed to change.

Nitrobenzene.—New business tapered somewhat, but shipments against contracts were steady. Pricewise a firm tone prevailed.

Orthonitrotoluene. — Strong price tone. Commitments usually held to moderate quantities.

Orthotoluidin. — Sellers provided needs of regular consumers. Prices were without change, and firm tone predominated.

Paranitroanilin. — Trading was well sustained for usual channels. Prices were firm.

Paranitrotoluene. — Little change developed in this direction, with supplies adequate to meet normal requirements. Prices unchanged.

Paratoluidin.—Moderate withdrawals the rule. Quotations well maintained.

Phthalic Anhydride. — Shipments moved at steady pace, principally against contracts. Prices without change and firm.

Schaeffer's Salt.—Dealings routine. Prices remain the same.

Thiocarbanilide. — Demand moderately active, and prices in conformity with those established previously.

Xylidin.—Firm price tone remains in evidence, and buying moderate.

Coaltar Colors

Transactions in the market for various coaltar colors displayed no broadening last week. Most factors reported a lull in new business, with consumers content to enter the market for necessary requirements. A good export inquiry remained in evidence, and some business was taken at firm levels. Canada still remained a dominant factor in the export market. Prices were unchanged and firm. Thirty-two additional colors have been certified by the Department of Agriculture for use in foods, drugs and cosmetics pursuant to the Food, Drug, and Cosmetics Act of 1938.

Imports of coaltar dyes into Argentina during the first semester of 1939 increased to 780,344 kilos from 346,447 kilos in the first half of 1938. Germany, Switzerland, France and the United States in the order named were the principal shippers during 1938.

William Neuberg, Inc., Now Neuberg Chemical Corp.

William Neuberg, Inc., 441 Lexington avenue, this city, is now operating as the Neuberg Chemical Corporation. The management and personnel of the organization remain unchanged and business is being conducted along the sames lines as heretofore.

Assay by Freezing Developed by B.of S.

—*Continued from page 5*

pleted. The magnitude of the freezing range, or the range of temperatures within which freezing occurs, is an accurate yardstick of the amount of impurities contained in the substance under observation. Knowledge of these facts has enabled bureau scientists to determine the characteristics of any substance not lending itself to the more commonly used method of chemical analysis.

A publication soon to be issued by the bureau will discuss in detail the sources of error generally encountered in freezing technics formerly used, and will describe the apparatus and methods developed to make the new studies successful.

Chemical Marketing Co. To Make New Detergent

A new synthetic organic compound, "Lamepon," said to have marked detergent and wetting properties will be produced on a commercial scale in the near future by the Chemical Marketing Company, offices of which will be located at 10 East 40th street, this city, after February 1. "Lamepon" is a water-soluble, viscous liquid, of almost neutral reaction, and is produced in several grades. Chemically it is described as a condensation product of protein derivatives and fatty acids, containing no free fatty acids or soap.

Among the versatile technical applications to which "Lamepon" is economically suited are as a wetting and penetrating agent; as a detergent and in scouring and foaming; in the emulsification of oils, greases, and waxes; in the solution and removal of lime soaps and deposits; and as a dispersing and leveling agent. In these uses the new material is said to have demonstrated a sparing effect on cellular bodies, such as the skin, plant tissues, and textile fibers, leaving them free of residue or deposits. Complete information regarding "Lamepon" may be obtained by addressing the company, mentioning the REPORTER.

Manufacturers to Honor Research Workers

—*Continued from page 4*

the nineteen will be given appropriate awards by the National Association of Manufacturers.

At the same time Dr. Compton announced that about 500 other inventors and research workers would be designated as "Modern Pioneers" and be honored at celebrations that will be held in local communities during February.

Pfaltz-Bauer Broadens Fluorophotometer Scope

Pfaltz & Bauer, Inc., this city, have announced that recent experimental work has increased the scope and application of its fluorophotometer to permit determinations of vitamin A, vitamin C, nicotinic acid, carotene, and porphyrin. Previously this instrument was used solely for photo-electric fluorescent assays of vitamin B_1 and vitamin G.

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(Continued from January 22 issue)

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Calcium polysulphide
Calcium resinate
Calcium sulphate
Calcium sulphide
Calcium sulphite
Calcium sulphydrate
Cannos
Caoutchouc
Carbon bisulphide
Carbon dioxide
Carbon monoxide
Carbothialdin
Castor oil
Cellulose distillation products
Chalcopyrite
Charcoal
Chestnut wood
Chlorides
Chromium xanthate
Chrysoidin
Chrysoidin dyestuffs
Chrysoidin hydrochloride
Chrysoidin sulphate
Citrates
Citric acid
Coal
Coal distillation products
Coalgas
Coaltar
Coaltar creosote
Coaltar distillates
Coaltar oil
Coaltar products
Cocoa matting
Coconut oil
Codliver oil
Coke
Colloids
Colophony
Copal
Copper carbonate
Copper carbonate, basic
Copper hydrogel
Copper hydroxide
Copper hydroxide, basic
Copper oleate
Copper ore
Copper pyrites
Copper silicate ores
Copper sulphate
Copper xanthate
Copper-ammonium salts
Cottonseed oil
Cottonseed distillation products
Creosote
Creosote oil
Cresol
Cresylic acid
Cyanides
Dehydrothio-orthotoluidin
Diaminoazobenzene
Diaminoazobenzene hydrochloride
Diaminophenyl disulphide
Diamylamine
Diazins
Diazo compounds
Diazoaminobenzene
Diazoaminobenzene hydrochloride
Diazoaminobenzene sulphate
Diazoaminoparatoluene
Diazoaminoparatoluene hydrochloride
Diazoaminoparatoluene sulphate
Diethyl dithiocarbonate
Diethylammonium
Diethylanilin
N-N-Dimethylanilin
3:3-Dimethyl-1-phenyl-hydrazimethylene
2:2-Dimethylthiocarbanilide
4:4-Dimethylthiocarbanilide
Dinitrosoresorcinol
Diphenyl thiocarbazide
Diphenylhydrazin
Diphenylhydrazin hydrochloride
Diphenylhydrazin sulphate
Diphenylthiourea
Dithiocarbamic acid
Dithiocarbamic acid derivatives
Diorthotolylthiourea
Diparatolylthiourea
Dixylylthiourea
Dyestuffs, various
Emulsopin
Ethers
Ethyl acetate
Ethyl alcohol
Ethyl ether
Ethyl xanthate
Ethylmethyl ketone
Eucalyptus oil
Fats
Fatty acids
Fish oils
Foamopin
Formylazobenzene
Formylazobenzene hydrochloride
Formylazobenzene sulphate
Fuelgas
Furfural
Gall extract
Gas oil
Gases
Gasolene
Gastar creosote
Gelatin
Gilsonite
Gilsonite distillate
Glue
Glycyrrhizin, ammoniated
Graphite
Grease
Grease-tar
Hydrazins
Hydrazin hydrochloride
Hydrazin sulphate
Hydroazobenzenehydrazin
Hydroazobenzenehydrazin hydrochloride
Hydroazobenzenehydrazin sulphate
Hydrobenzene
Hydrocarbons
Hydrocarbon gas
Hydrochloric acid
Hydrochloric acid gas
Hydrofluoric acid
Hydrogen sulphide
Hydroxyl compounds.
Illuminating gas
Iron dithiocarbamate
Iron orthotolyldithiocarbamate
Iron pyrites
Iron sulphate
Iron xanthate
Iron-ammonium alum
Isonitroso bodies
Isophorone
Kerosene
Kerosene distillates
Lac
Lead acetate
Lead dithiocarbamate
Lead phenylcarbamate
Lead sulphide
Lead xanthate
Licorice root extract
Light oil
Lignite tar oil
Lime
Linoxenated oil
Linseed oil
Liver oils
Magnesium chloride
Magnesium nitrate
Magnesium sulphate
Manganese sulphate
Mastic
Menhaden oil
Mercury xanthate
Mesityl oxide
Metal xanthates
Methane
Mineral oils
Napthalene
Naphthenes
1-Napthol
2-Naphthol
Naphthylamine
1-Naphthylamine
1-Naphthylazo-1-naphthol
Naphthylhydrazine
Naphthylhydrazin hydrochloride
Naphthylhydrazin sulphate
Nickel xanthate
Nitric acid vapors
Nitrogen
Nitronaphthalene
Oils
Oleic acid
Olive oil
Orthotoluidin
Oximes
Oxyazo compounds.
Oxygen
Ozonized oils
Palm oils
Para-aminoazobenzene
Para-aminoazobenzene hydrochloride
Para-aminoazobenzene sulphate
Para-aminoazobenzene sulphide
Paraffin
Paratoluidin
Persulphates
Petroleum
Petroleum distillates
Petroleum oils
Petroleum sludge
Phenol
Phenyl isothiocyanate
Phenylazo-1-naphthol
Phenylazo-2-naphthol
Phenylazophenol
Phenylhydrazin
Phenylhydrazin hydrochloride
Phenylhydrazin sulphate
Phenylthiourea
Phorone
Phosphoric acid
Pinacone
Pine oil
Pine oil, yellow
Pine oil products
Pine oil vapors
Pinetar
Pinetar products
Pitch
Potassium amylxanthate (from diethylcarbonol)
Potassium amylxanthate (from pentasol)
Potassium bicarbonate
Potassium butylxanthate (from secondary butyl alcohol)
Potassium carbonate
Potassium chloride
Potassium ethylxanthate
Potassium hydrosulphide
Potassium hydroxide
Potassium laurate
Potassium myristate
Potassium 1-naphthyldithiocarbamate
Potassium nitrate
Potassium oleate
Potassium orthotolyldithiocarbamate
Potassium palmitate
Potassium phenyldithiocarbamate
Potassium polysulphide
Potassium resinate
Potassium silicate
Potassium stearate
Potassium sulphate

(To be continued)

Paint, Varnish, Lacquer Materials

Slab Zinc Reduced — Zinc Oxides Continue Firm — Blanc Fixe Market Tight — Glues Strong But Casein Easier — Turpentine Up — Rosin Firm

The lack of interest in offerings of slab zinc, apparent since the beginning of the year, finally overtook the price last week and quotations were lowered. The reduction did not disturb the market for paint derivatives, zinc oxides continuing in good demand at firm and unchanged prices.

Interest in chemical and earth colors was fair during the period under review, with producers expecting a pick-up next month. Blanc fixe continued very tight and several producers were quoting on a day-to-day basis, rather than offering long-term contracts. Varnish gums were quiet. Glues continued strong but domestic casein was weak and the Argentine material was lowered. Turpentine again moved upward and rosin ruled firm, the developments of the week in the matter of prices being regarded as a reflection of the strength of the statistical position. Severe winter weather prevailed in many parts of the South and receipts and offerings in primary markets were light throughout the week. Business was quiet.

Price Changes

Advanced

Rosin, gum, grade I., 5c. per 280 lbs.
Turpentine, gum, 4c. per gal.
Turpentine, S.D., 3c. per gal.

Reduced

Casein, Argentine, ½c. per lb.
Zinc, slab, ¼c. per lb.

Comparative Values

Index numbers compiled from eleven typical paint and varnish materials on the basis of 100 for August 1, 1914, compare as follows:—

Last week.	Prev. week.	Last month.	Last year.
126.2	126.2	126.3	131.7

Market news that may have developed after this report was sent to press will be found on page 4.

Metallic Lead and Zinc

Slab zinc was reduced ¼c. per pound to 5.50c. per pound at East St. Louis and 5.90c. at New York. The reduction was not unexpected, as weakness in the market had been present for several previous weeks. The lower price went into effect on Monday and even as early as the Friday previous there were rumors of it. Lead, meanwhile, continued steady and unchanged with sales at a somewhat better level.

Lead.—Prevailing spot prices at New York, East St. Louis and London for the period from January 20 to January 26, inclusive, were as follows:—

	Per pound New York.	Per pound E. St. Louis.	Spot. London. Per ton £ s. d.
Saturday	$0.0550@.0555	$0.0535	..* .. ..
Monday	.0550@.0555	.0535	.. .. ..
Tuesday	.0550@.0555	.0535	.. .. ..
Wedn'sd'y	.0550G.0535	.0535	.. .. ..
Thursday	.0550@.0555	.0535	.. .. ..
Friday	.0550@.0555	.0535	.. .. ..

* London Exchange closed.

Zinc.—Prevailing spot prices at New York, East St. Louis and London for the period from January 20 to January 26, inclusive, were as follows:—

	Per pound New York.	Per pound E. St. Louis.	Spot. London. Per ton £ s. d.
Saturday	$0.0615	$0.0575	..* .. ..
Monday	.0590	.0550	.. .. ..
Tuesday	.0590	.0550	.. .. ..
Wednesday	.0590	.0550	.. .. ..
Thursday	.0590	.0550	.. .. ..
Friday	.0590	.0550	.. .. ..

* London Exchange closed.

Pigments

Antimony White. — Sales volume small with price nominal at 15½c. per pound, f.o.b. Texas.

Litharge.—Market continued in seasonal groove with price firm and unchanged.

Lithopone.—Demand a bit better but shipments were small-sized lots only. Price firm.

Orange Mineral.—No new features appeared in market, with both demand and listed price unchanged.

Red Lead.—A pick-up in inquiry was reported and the quotation reflected the steadiness of the metal market.

Titanium Pigments. — Recent reductions prompted a slightly better market interest and sales volume was at a satisfactory level for this time of year. Prices were firm.

White Lead.—The market moved slowly and a pick-up was expected next month. Price firm and unchanged.

Zinc Oxides.—Sales were holding up well during the week and no evidence of a slackening was seen. Prices were steady.

Fillers and Extenders

Barytes. — Barrel prices firm at $25.15 per ton for car lots and $26.15 for less than car lots, basis St. Louis. Material in paper bags was offered at $22.85 and $23.85, respectively. Less car lot price in New York was firm at $31.50, ex warehouse.

Blanc Fixe.—A tight market prevailed with stocks reputedly at a low level. Some producers were refusing long-term contracts and were quoting on a day-to-day basis. Car lots of the dry, by-product material were reported sold at $50 to $55 per ton and the direct process product was quoted at around $70. Pulp material was at $35.

Charcoal.—Hardwood material was in fair demand with price firm.

China Clay.—Inquiries for future delivery continued to show gains but the spot market was at previous levels. The price was steady and unchanged.

Graphite.—Demand light and price steady.

Mica.—Wet-ground, paint or lacquer material, firm at 4½c. per pound for car lots and 5c. for less than car lots, both freight allowed.

Whiting.—Prices for all grades continued to be firm and demand was at prior levels.

Synthetic Resins

Ester Gum.—The market was normal last week with demand light and price firm at 6½c. to 6¾c. per pound for New York delivery.

Chlorinated Rubber.—The market was more active as consumers were showing a greater interest in offerings last week. Prices were steady and unchanged.

Driers

Palmitates. — Sales volume was satisfactory with prices firm at 24½c. to 27½c. per pound for zinc; 25½c. to 28½c. for magnesium; 22c. to 24c. for calcium, and 20c. to 25½c. for aluminum.

Stearates. — Deliveries against contract were at a higher level last week and prices held firmly at quotations

Current prices on paint, varnish and lacquer materials are given in the alphabetical list of prices beginning on page 7

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- CHICAGO
- ST. LOUIS
- KANSAS CITY
- DES MOINES
- LOS ANGELES
- SAN FRANCISCO
- NEW ORLEANS

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that were 1½c. per pound higher than palmitates.

Varnish Gums

Copals.—For the second successive week quoted prices were unchanged during the period under review. The market was a bit quieter but sales volume remained satisfactory to major producers.

Dammars. — Primary sources reported firmness in evidence but there were no prices altered last week. Demand lighter.

Naval Stores

The naval stores situation was featured last week by a further advance in turpentine and by a continuation of a firm tone in the market for rosin. The rise in turpentine to the highest point recorded for a considerable period had the effect of strengthening sentiment in trade circles concerning the outlook for prices and business during the remainder of the current season as well as for the new naval stores year which opens in April. The recent upturn in dark rosins failed to bring about any increase in offerings and there was no disposition to look for any relief from the scarcity of these grades until the new season opens up.

Business was quieter last week, the lack of any noteworthy activity being attributed by some to recent developments in the matter of prices though the smallness of offerings was also said to account in some measure for the prevailing quietness. There was a steady movement of rosin into consuming channels on unfilled contracts and the shipments of turpentine were also said to be satisfactory for this period of the year. In the opinion of some consumption of turpentine during the coming season will probably show a further increase as the indications seem to point to great activity in building of various kinds with the approach of Spring.

Cold and stormy weather prevailed last week in many parts of the South and the movement from the interior to primary markets was small. Opinions differed as to whether a return to more normal conditions would be followed by an increase in primary receipts, it being contended by some that supplies of both rosin and turpentine in many sections have been closely cleaned up and that the holdings in not a few instances are unprecedentedly small for the month of January.

CCC Loan Holdings

The following table shows the stocks of rosin and turpentine held January 19 by the CCC under loans on the 1938 and 1939 crops:—

	Rosin 1938.	Rosin 1939.	Turpentine. 1939.
Savannah, bbls.	109,829	51,207	4,632
drums	.....	12,153	.....
Jack'ville, bbls.	179,921	116,282	25,704
drums	.....	19,801	.....
Brunswick, bbls.	95,035	87,281	22,350
drums	955	9,414	.....
Mobile, bbls.	14,543	7,187	.....
drums	2,269	10,064	.....
Pensacola, bbls.	25,782	18,875	5,915
drums	.....	6,024	.....
Valdosta, bbls.	121,706	132,706	28,027
drums	.....	32,045	.....
Wiggins, bbls.	.....	282	.....
drums	.....	10,378	.....
Estill, bbls.	.....	771	.....
drums	.....	8,193	.....
Helena, bbls.	.....	53,581	23,947
drums	.....	55,877	.....

Turpentine. — The trend of local prices was again upward as a further rise occurred in the South where receipts and offerings continued light, especially as severe Winter weather prevailed in many sections. Business here was limited to small or moderate quantities for prompt shipment.

SAVANNAH, Jan. 26.—A firm tone prevailed in turpentine. Following is a record of the market for the week:—

	Cents (gal.)	Barrels Sales.	Receipts.	Shipments.	On hand
*Saturday	..	...	...	...	.....
Monday	30½	15	14	16	21,967
Tuesday	30¾	6	6	50	21,923
Wednesday	32¾	5	3	48	21,878
Thursday	33	4	4	1,481	20,401
Friday	33¼	26	18	7	20,412

* No trading.

JACKSONVILLE, Jan. 26.—Turpentine remained quiet. Following is a record of the market for the week:—

	Cents (gal.)	Barrels Sales.	Receipts.	Shipments.	On hand
*Saturday	..	...	...	...	.....
Monday	26	...	...	107	43,359
Tuesday	26	...	29	2,407	40,981
Wednesday	26	...	6	...	40,987
Thursday	26	...	63	81	40,969
Friday	26	...	98	2	41,068

* No trading.

PENSACOLA, Jan. 20.—The turpentine market was quiet. Following is a record of the market for the week:—

	Barrels Receipts.	Shipments.	Stocks.
Monday	17	...	17,756
Tuesday	4	81	17,769
Wednesday	56	162	17,573
Thursday	63	...	17,579
Friday	85	...	17,581
Saturday	...	...	17,581

Markets at Other Centers

Chicago—Jan. 26

A firm tone prevailed in turpentine. Buyers, although watching their stock position to prevent building up excess supplies are taking good quantities in the aggregate, in both wholesale and retail divisions. Five-drum lots, 40c. per gallon; five wood barrels, 45c.; single drums, 43c.; single barrels, 48c.

LONDON, Jan. 26.—Turpentine 57s. per 112 pounds. Stocks of American as follows:—

	Jan. 26.	Previous week.	Last year.
Barrels	14,661	15,300	28,167

Rosin.—A firm tone continued to prevail here in company with developments in the South, where dark grades remained scarce, with offerings of other grades light. Receipts were small and there was said to be no likelihood of any expansion of consequence in marketing during the remainder of the season. Business here was quiet.

PENSACOLA, Sept. 20.—Rosin was quiet and steady. Following is a record of the market for the week:—

	Barrels Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
Receipts	121	80	170	1,590	124	...
Shipments	100	100	...	...	100	...
Stocks	61,329	61,309	61,479	61,628	61,652	61,672

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Iron Blues
Para Toners
Toluidine Toners
Lithol Toners
Red Lake C Toners
Permanent Orange Toners
Pyrotone Red Toners
Barium Products
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SAVANNAH, Jan. 26.—The rosin market had a firm tone. Following is a record of the market for the week:—

	Price per unit—Low of range quoted					
	*Sat.	Mon.	Tues.	Wed.	Thurs.	Fri.
B	...	$4.50	$4.50	$4.50	$4.50	$4.50
D	...	4.75	4.75	4.75	4.75	4.75
E	...	5.05	5.05	5.05	5.05	5.05
F	...	5.15	5.15	5.15	5.15	5.15
G	...	5.35	5.35	5.35	5.35	5.35
H	...	5.40	5.45	5.45	5.45	5.45
I	...	5.45	5.45	5.45	5.45	5.45
K	...	5.50	5.50	5.50	5.50	5.50
M	...	5.55	5.55	5.55	5.55	5.55
N	...	5.55	5.55	5.55	5.55	5.55
WG	...	5.65	5.65	5.65	5.65	5.65
WW	...	6.20	6.20	6.20	6.20	6.20
X	...	6.20	6.20	6.20	6.20	6.20
	Barrels					
Sales	...	108	...	...	...	...
Receipts	...	216	441	44	109	116
Shipments	...	670	420	123	2,742	286
Stocks	...	...	...	...	...	206,740

* No trading.

JACKSONVILLE, Jan. 26.—Rosin receipts continued light. Following is a record of the market for the week:—

	Price per unit—Low of range quoted					
	*Sat.	Mon.	Tues.	Wed.	Thurs.	Fri.
B	...	$3.75	$3.75	$3.75	$3.75	$3.75
D	...	4.00	4.00	4.00	4.00	4.00
E	...	4.75	4.75	4.75	4.75	4.75
F	...	4.90	4.90	4.90	4.90	4.90
G	...	5.10	5.10	5.10	5.10	5.10
H	...	5.15	5.15	5.15	5.15	5.15
I	...	5.20	5.20	5.20	5.20	5.20
K	...	5.35	5.35	5.35	5.35	5.30
M	...	5.37½	5.37½	5.37½	5.37½	5.37½
N	...	5.45	5.45	5.45	5.45	5.45
WG	...	5.55	5.55	5.55	5.55	5.55
WW	...	6.30	6.30	6.30	6.30	6.30
X	...	6.30	6.30	6.30	6.30	6.30
	Barrels					
Sales	...	...	...	...	...	...
Receipts	...	40	117	61	14	326
Shipments	...	1,901	...	14	30	...
Stocks	...	...	...	...	...	341,299

* No trading.

Markets at Other Centers

Chicago—Jan. 26

Rosin has been firm. Activity is fair. B grade, $7.30 per lot of 280 pounds; G grade, $8.25; M grade, $8.50; W.W. grade, $9.20.

LONDON, Jan. 26.—Rosin, fine, 28s. 6d. per cwt; W.W., 35s.

Pine Oil.—A steady tone continued to prevail. Business lacked snap, consumers being inclined to pursue a conservative course in making purchases.

Pitch.—Demand was rather slow so far as new business was concerned, although consumption in some lines was said to have increased recently.

Rosin Oil.—Quotations on spot material were maintained with the tone of the market firm in company with raw material. Trade quiet.

Tar. — Business showed some improvement and the market here had a firm tone, quotations being held at former levels.

Dry Colors

Bone Black.—Quoted at 6½c. to 17½c. per pound.

Carbon Black. — Market brisk and price firm at 2.55c. per pound for uncompressed material and 2.41½c. for compressed, both f.o.b. plants. Export shipments were heavy during the week, with bags of the compressed shipped at 5.21c. per pound and cases of the uncompressed at 6.21c., both f.a.s. Gulf ports.

Chrome Green.—Sales light, with price firm at 21c. to 30c. per pound for C.P. material.

Chrome Yellow.—Market active at 14½c. per pound for spot and 13½c. for contract.

Eosin Toner.—Firm at $1.25 per pound.

Iron Blues.—Sales volume satisfactory to producers, with price unchanged at 34c. per pound for spot and 33c. for contract.

Mercuric Oxides.—Market inactive. List price prevailed at $2.41 per pound for technical red material and $2.26 for yellow.

Ocher. — American yellow firm at 1⅜c. to 6¼c. per pound, with demand normal. French product nominal at 2⅝c. per pound for all shades, f.o.b. New York.

Para Toner. — Market unchanged, with price steady at 70c. per pound for contract and 75c. for spot.

Potash Blue.—Inquiry better. Firm at 42c. per pound, contract and spot.

Ultramarine Blue.—Demand at good level, with contract price firm at 16c. to 27c. per pound for regular grade.

Venetian Red.—Consuming interest better, with sales made at unchanged price of 2.20c. to 3.60c. per pound, f.o.b works.

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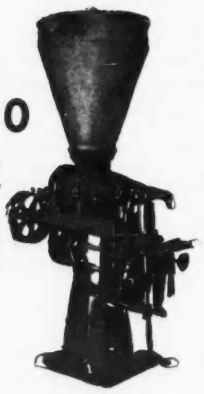
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Agents and Warehouse Stocks in Principal Centers

Vermilion.—English vermilion continued at $2.46 to $2.55 per pound, despite fluctuations in metal market.

Walnut Crystals.—Firm at 6½c. per pound.

Lacquer Materials

Transactions in the market for lacquer materials and solvents were steady. Shipments moved well against contracts, with spot buying satisfactory. Sellers experienced less pressure for shipments, but volume was sufficient to keep the market in a firm position. Export inquiry remained brisk for some products. No specific price developments occurred.

Acetone.—Moderate shipments against contracts, with spot business fairly steady. Good export inquiry. Prices unchanged and firm.

Butyl Acetate.—Shipments steady. Quotations for normal and secondary well maintained.

Cellulose Acetate.—Quotations well maintained at levels recorded preceding period. Consumers entering market for satisfactory quantities.

Dibutyl Phthalate.—Buying routine. No change was disclosed in the quotations.

Ethylene Dichloride.—Buying was maintained at a fairly steady pace. Pricewise a firm tone governed the transactions.

Isopropyl Acetate.—Demand was keeping pace with production, and prices were firm.

Shellac

Quotations from the Calcutta market came in lower last week without developing a downward trend in prices for spot goods, the limited decline in the primary market being insufficient to affect the position of values on spot. Demand for import parcels was not very large. Agents indicated that the heavy arrivals over the recent past have apparently relieved pressing requirements and established a fair reserve; one sufficient to permit importers some reserve in considering import offerings. Demand for spot goods was reported very good and deliveries were practically prompt.

Glues and Binders

Casein.—Domestic material easier, but producers continued to quote 20-30 mesh material at 14c. per pound for car lots. Shading of this price was reported. The Argentine material was ½c. per pound lower at a range of 12½c. to 13c. New Zealand product was firm at 14½c. per pound for car lots of 20-30, and the French was nominal at 16c.

Glues.—Bone glues were strong at 13½c. to 15½c. per pound, and hide glues continued firm at 15c. to 24c. Shipments to the trade remained at a good level.

Chrome Green Paint Changes Suggested

Changes in Federal specification TT-P-71 for chrome green linseed oil paint of the house-paint type are under consideration by the technical committee on paint, of the Federal specifications executive committee of the National Bureau of Standards.

The proposed specifications call for a 25-percent precipitated chrome green with a substratum of barium sulphate and siliceous material. No figure is set for the lead or the chromium content, but the coloring must be a mixture of lead chromate and iron blue and at least 75 percent of the lead present must be in the form of the chromate. The preferred composition of the pigment is chrome green, 25 percent; barytes, 50 percent; and china clay, 25 percent.

The vehicle of the paste paint is entirely linseed oil; that of the mixed paint consists of linseed oil, 80 percent; nonreactive spar varnish, 10 percent; and combined drier and thinner, 10 percent, with not less than 85 percent by weight of nonvolatile.

New language is suggested for sections I-2, I-3, I-4, and I-5.

Copies of the proposed revisions may be obtained from the chairman of the technical committee, E. F. Hickson, 417 Chemistry building, National Bureau of Standards, Washington. Criticism and other comment on the proposals are to be in Mr. Hickson's hands by February 19.

Artist's Oil Paints Standards Proposed

—Continued from page 3

requested either at the hearing or in written communications. A preliminary conference was held with manufacturers April 14, 1939. The proposed commercial standard covers the criterions of color, nomenclature, chemical composition, working qualities, performance, and methods of testing. Two grades are proposed, "Artist's" and "Student's," and four classes according to light fastness.

The proposed standards would set up the following general requirements with respect to artist's oil paints:—

Pigments shall be of good grade. Composition and identity shall conform to table I and table II. Organic lakes or toners shall not be used to fortify or sophisticate inorganic pigments. Substitution of similarly colored pigments is not permitted.

Vehicles shall consist of pure drying oils, linseed or poppy oil. Driers in amounts necessary to meet drying rate requirements (paragraph 8) may be added but their presence must be shown on the label. The volume of liquid drier used shall not exceed 1 percent of the volume of the vehicle.

Drying rate shall be determined by the sand and pressure testing devices. Paints shall dry to both tests within twenty-one days and not under three days at 76° F. and 55 percent relative humidity.

Consistency of artist's oil paints shall be determined by use of a standard 2 kilogram paste paint consistometer. Readings between 2 and 5 will be acceptable under this standard.

Brushing quality of artist's oil paints shall be determined by observing the handling quality of the paint when manipulated with a brush. All artist's oil paints shall brush out smoothly, evenly, and easily, leaving a normal brush mark. They shall not be sticky, thick, or rubbery, nor too fluid. There shall be no free or excess oil. They shall not contain skin and shall be uniformly ground. They shall retain their form and shall not level out when applied with a palette knife.

Tinting strength of "Artist's" grade oil paint shall not be less than 8, and "Student's" grade not less than 5, against a standard of 10 for each color. Standards for comparison of tinting strength shall be set up by a committee comprising representatives from manufacturers and the paint testing and research laboratory.

Composition of the paint governed by the relative amounts of vehicle, pigment, and inert used shall produce a paint of satisfactory working qualities conforming to all requirements of this commercial standard.

Inerts and fillers shall not be used in amounts that will impair the tinting strength, the drying time, and the working qualities of the paint. Metallic soaps shall not exceed 2 percent of the total weight of paint.

Tables I and II referred to in the requirement on pigments are glossaries of common names under which artist's colors are known, and they give a chemical description of each pigment, together with the light-fastness rating. Table I comprises fifty common names of "standard paints"; table II comprises five common names of "special paints."

Detailed requirements are proposed for light fastness and names under which the paints and pigments are sold. Methods of testing are described, together with apparatus and other equipment involved. There are also requirements for packaging and labeling.

Details of the proposal which is indexed as TS-2793 and arrangements for representation in the hearing may be taken up with F. W. Reynolds, Division of Trade Standards, National Bureau of Standards, Washington.

Patent Law Amendment Discussed by RCI Organ

The amendments to the patent laws presently before the House committee on patents for consideration by congress during the coming session are discussed in the feature article of the December-January issue of "By Gum," bimonthly publication of Reichhold Chemicals, Inc., manufacturer of synthetic resins and oils, and chemical pigment colors. The amendments, it is pointed out, seek to correct certain abuses possible under the present laws. Other discussions in the booklet concern recent developments in the field of synthetic fibers, fabrics, and finishes; dyes and dry colors and their application; and a comprehensive description of the properties of "No. 2668 Super-Beckacite." Interested persons may secure copies of the publication by addressing Reichhold Chemicals, Inc., 601 Woodward Heights boulevard, Detroit, Mich, mentioning the REPORTER.

Trade Briefs

W. G. Luke has been elected a director of the Western Virginia Pulp & Paper Company, filling a vacancy caused by the death of C. W. Luke.

John W. Masury Sons & Co., paint manufacturer, Brooklyn, has transferred Harvey Fyfe from its Baltimore sales territory to Minneapolis.

Robert P. Bonnie, secretary and treasurer of the Kentucky Color & Chemical Company, has been elected a director of the Louisville Board of Trade.

F. O. Pierce Company, manufacturer of paints and varnishes, has moved its plant and offices from Brooklyn to 2-33 Fiftieth avenue, Long Island city.

Wilfred Gagnon has been elected a director of the Sherwin-Williams Company of Canada, Ltd., filling a vacancy caused by the death of A. W. P. Buchanan.

Reynolds Metals Company, Louisville, Ky., will erect an additional factory for the production of sheet aluminum at Cane Run road and the K. & I. Terminal Railroad.

A. W. Scott, director of the white lead sales of the Pacific coast branch of the National Lead Company, this city, has completed twenty-five years of service with the company.

Johns-Manville Corporation, this city, directorate has voted to call 7,500 shares of the outstanding 7 percent cumulative preferred stock for redemption April 1 at $120 a share and accrued interest.

Ralph Roosevelt, of the Sherwin-Williams Company, this city, former president of the New York Paint, Varnish and Lacquer Association, is recovering from a seige of pneumonia at Doctors' Hospital.

Ralph T. Urich, of the Reichhold Chemicals, Inc., Detroit, was the guest speaker at the January meeting of the Kansas City Paint and Varnish Production Club. He discussed the problems attending the use of chemical pigments.

Netherland Indies Plans Activated Carbon Factory

The Netherlands Indian Norit factory, which will build an activated carbon plant in Bandoeng, Java, is to be established in Amsterdam in the near future, according to the advices to the Department of Commerce from the office of the American commissioner in Batavia. Fifty percent of the capital will be supplied by the General Norit Co., Ltd., Amsterdam, and the remaining half by the Netherlands Trading Society, Amsterdam and Batavia. The site for the Bandoeng plant has been purchased and construction work is to be started soon. It is expected that the factory will be placed in operation in four or six months. The daily production capacity will be 2,400 fillings for gas masks and refining agents for the local sugar and petroleum industries will also be manufactured. Coconut shell charcoal will be used as raw material.

American Zinc, Lead Names Eide Pigment Div. Manager

A. C. Eide has been named manager of the pigment division of American Zinc, Lead & Smelting Company, St. Louis. Previous to joining the company in 1916, Mr. Eide had been affiliated with U. S. Smelting & Refining Company, West Chicago. Mr. Eide will continue to make his headquarters in Columbus, where he has been in charge of technical sales development work.

E.T. Trigg to Address Cleveland Club Jan. 31

E. T. Trigg, president of the National Paint, Varnish and Lacquer Association, will address the Cleveland Paint, Varnish and Lacquer Association, at a meeting in the Hotel Cleveland, January 31.

Lead and Zinc Pigments Sales Gained in 1939

Sales of lead and zinc pigments in 1939 on the whole made a good showing in comparison with 1938, according to the Bureau of Mines. Sales of red lead and litharge were higher than in any other year since 1929; those of zinc oxide were about equal to the 1937 rate and, with the exception of 1936, were higher than in any other year since 1930; those of leaded zinc oxide established a new high record rate; and those of zinc sulphate approximately duplicated the record rate of 1937.

Of the lead pigments, total white lead sales were relatively unchanged from 1938, dry white lead sales having declined slightly. Sales of red lead were 23 percent higher than in 1938 and of litharge were 27 percent above. The total for basic lead sulphate was unchanged from the previous year. The increasingly large quantities of basic lead sulphate manufactured for use in the production of leaded zinc oxide are excluded from the totals shown for this product in order to avoid duplication of lead tonnages in reporting statistics for leaded zinc oxide.

The most important items in foreign trade in lead and zinc pigments for the first eleven months of 1939 were as follows:—Exports of white lead, dry and in oil, amounted to 1,876 short tons; litharge, 1,966 tons, and red lead, 1,161 tons. Imports of lithopone during the same period totaled 2,641 tons; zinc oxide, dry and in oil, 1,480. Exports of lithopone amounted to 4,106 tons and zinc oxide, 2,964 tons. Figures of imports and exports are obtained from records of the Bureau of Foreign and Domestic Commerce.

Some lead and zinc pigments and zinc salts sold by domestic manufacturers in the United States, 1938-39, in short tons follows:—

	1939.	1938.
Basic lead surphate or sublimed lead	*5,800	*5,801
Red lead	37,200	30,183
Orange mineral	130	127
Litharge	87,100	68,711
White lead—		
Dry	29,100	†29,813
In oil‡	70,400	70,400
Zinc oxide	114,700	79,129
Leaded zinc oxide	44,100	38,216
Lithopone	137,500	125,746
Zinc sulphate	10,600	7,757

* Exclusive of basic lead sulphate used for the manufacture of leaded zinc oxide which is included in tonnages shown for that pigment.
† Revised figures.
‡ Weight of white lead only.

Casein Company Describes New 'Protovac' Products

Information on the newest developments in the industrial utilization of casein and the caseinates is presented in an attractive book just published by the Casein Company of America. It also explains the characteristics of a new line of "Protovac" modified casein products. These materials are produced by a remanufacturing process in which the normal properties of casein are changed.

Although new in name, the "Protovac" products have a background of thorough research, and a record of several years' successful use in the production of paper coatings and sizes, leather finishes, water-dispersed paints, adhesives and glues, textile finishes and sizes, medicinal and pharmaceutical preparations, and foodstuffs. A free copy of the book may be secured by addressing the research and development laboratories of the Casein Company of America, Bainbridge, N. Y., mentioning the REPORTER.

Louisville Production Club Hears F.C. Schmutz

The one hundred and thirty-fourth meeting of the Louisville Paint and Varnish Production Club was held January 18 in the Brown hotel. Principal event of the meeting was a talk by the guest speaker, F. C. Schmutz, of the New Jersey Zinc Company, on "A Practical Hiding Power Comparison of Lithopone and Titanium—Calcium Pigments in Commercial Flat Wall Paints." The meeting was called by H. L. Beakes, secretary-treasurer.

Shellac Importers to Meet

The annual meeting of the United States Shellac Importers' Association will be held February 1 at the Downtown Athletic Club. Officers and directors to serve during the coming year will be elected.

Oils, Fats, and Waxes

Tallow Offerings Light and Market Firmer—Refined Fish Oils Advanced—Cottonseed Oil Futures Irregular Within Narrow Limits — Perilla Stronger — Coconut Easier

Business in miscellaneous oils, fats and greases remained quiet last week so far as the general list was concerned. Here and there a fair request was noted, but as a rule purchasing was of the same hand-to-mouth character noted in recent preceding weeks, many consumers still being disinclined for one reason or another to purchase in advance of immediate requirements.

Offerings were generally light and price changes were confined within narrow limits, advances being more numerous than reductions, with the prevailing tone steady at the close of the week. Marketing of hogs continued heavy in the West despite severe Winter weather and the trend of hog prices was still downward. Cottonseed oil futures were quiet and price movements were narrow and devoid of any particular significance. Perilla and chinawood oils were still firm features of the list of vegetable products.

Price Changes

Advanced

Corn oil, crude, ⅛c. per lb.
Grease, ⅛c. per lb.
Menhaden oil, refined, 2/10c. per lb.
Perilla oil, ¼c. to ½c. per lb.
Sardine oil, refined, 2/10c. per lb.
Tallow, ⅛c. per lb.

Reduced

Beeswax, crude, African, 1c. per lb.
Carnauba wax, No. 3 chalky, 2c. per lb.
No. 3 North Country, 2c. per lb.
No. 1 yellow, 4c. per lb.
No. 2 yellow, 4c. per lb.
Coconut oil, ⅛c.to ¼c. per lb.
Japan wax, ⅛c. per lb.
Linseed cake, $1.50 per ton.
Sterin, ¼c. per lb.

Comparative Values

Index numbers compiled from twenty-three typical oils, fats and greases on the basis of 100 for August 1, 1914, compare as follows:—

Last week.	Prev. week.	Last month.	Last year.
106.8	**106.6**	**106.8**	**101.0**

Market news that may have developed after this report was sent to press will be found on page 4.

Chinawood Oil

The local chinawood oil situation continued to be featured by a firm tone. Numerous inquiries were received in some quarters but few transactions were noted owing to the lack of supplies, only small lots being available among importers and resellers. Quotations were generally stationary with the figures mainly nominal. Some small-lot business was reported to have been closed in oil in drums. Tankcars were said to be practically unobtainable on spot. Importations were reported of 1,190 tons at New York from Hongkong.

SAN FRANCISCO, Jan. 24.—Chinawood oil sold at 25½c. during the week, with sellers indicating they would accept 25⅝c. right now. Offerings are moderate.

Vegetable Oils

Coconut.—Crude oil remained quiet. No material change was reported in the Far Eastern situation and there was nothing stimulating in the developments of the week in the markets for competing products. Quotations were reduced ⅛c. Refined oil was also quiet at a reduction in prices of ¼c.

Corn.—Crude oil was firmer despite an easier tone in some outside markets. Offerings were light and quotations in some cases were advanced ⅛c. There was a fair request. Refined was steadier.

Cottonseed.—A somewhat better request was noted for edible oil. The market was steady, previous quotations being repeated.

Oiticica.—Conditions prevailing locally underwent little change during the week, the market being quiet in the absence of any increase in supplies or shipment offerings. Quotations were steady with the figures largely nominal.

Olive.—A somewhat better inquiry was noted for moderate lots of foots and denatured oil. The prevailing tone was steady, quotations showing little change.

Peanut.—Crude was generally reported as steady with offerings light. According to a report from official sources the quantity of farmers' stock peanuts milled during December totaled 82,448,000 pounds, or 13.9 percent less than in the same month in the previous year; stocks of crude oil at close of December 3,437,000 pounds, or about 1,000,000 pounds less than in the previous year.

Perilla.—A firm tone continued to prevail, quotations being advanced ¼c. by some sellers with the figures nominal owing to the smallness of supplies. According to a report from Manchukuo the quantity of perilla seed harvested from the last crop was 45,000 metric tons smaller than in the previous season.

Markets at Other Centers

San Francisco, Jan. 24.—Most vegetable oils, with the exception of perilla, turned easier last week. Buying moderate.

COCONUT.—Sales at 2⅞c. per pound in tankcars, f.o.b. Pacific Coast ports and/or mills. Buyers' ideas are now 2¾c., with large bids said to be in the market. Copra appeared to be available at about 1.85c. per pound, c.i.f. Pacific Coast ports. Some business was apparently put through at close to this quotation, although buyers' ideas are more in the neighborhood of 1.80c. in view of the current status of coconut oil.

OITICICA.—Raw, liquid oil, 19c. to 20c. per pound in drums, f.o.b. Pacific Coast ports for forward shipment out of Brazil. Spot stocks cleaned out.

PERILLA.—Market nearly bare of supplies; 18¼c. to 18¾c. per pound in tankcars, out of local storage; no Japanese offerings.

TEASEED. — New crop teaseed oil, moderate acid, is quoted on the basis of 12½c. per pound in drums, f.o.b. Pacific Coast ports.

Chicago, Jan. 26.—Vegetable oils are holding up rather well. Trade is reported a little better in some quarters.

COCONUT.—Crude basis, 3c. to 3⅛c. per pound. Refined, edible oil, 9c. to 9¼c. per pound, drums, car lots; and 9½c. to 9¾c., drums, less than car lots.

CORN.—Crude, low acid, 6⅛c. to 6¼c. per pound, nominal. Refined, edible oil, 8¼c. to 8½c. per pound, drums, car lots; and 8¾c. to 9c., drums, less than car lots.

SOYBEAN.—Crude, 5¼c. to 5⅜c. per pound.

The market for soybeans on the Chicago Board of Trade was quieter. The tone was firm early in the week, but prices had a downward trend later on liquidation. Following is a price record, per bushel, for the week:—

	High.	Low.	Closing Jan. 26.	Closing Jan. 19.
Cash	$1.13	$1.09	...	$1.12¼
May	1.13¼	1.06¾	1.08	1.12¼
July	1.10½	1.04¼	1.05⅝	1.09¼

Linseed Oil

Flaxseed prices were irregular, changes being frequent. Linseed cake lower; meal and oil steady.

Flaxseed—DULUTH, Jan. 26.—The cash flax market remains steady due to a continued run of small receipts. Commercial demands continue steady. The cash basis is unchanged at 9 cents over Minneapolis May for flax on track and 8 cents over for flax to arrive. Stocks of flax in store here show a decrease of 7,000 bushels for the week and now total 57,000 bushels against 110,000 bushels a year ago.

The week's closing price range was as follows:—

	Cash.	May.	July.
Saturday	$2.15	$2.07	$2.04
Monday	2.15	2.07	2.04
Tuesday	2.17½	2.06½	2.03½
Wednesday	2.18	2.06½	2.03½
Thursday	2.15½	2.04½	2.02
Friday	2.16	2.09½	2.02

Crop movement in bushels follows:—

	Receipts 1940.	Receipts 1939.	Shipments 1940.	Shipments 1939.
This week	4,967	.....	7,044	.....
Since Aug. 1..	3,713,967	1,625,318	1,622,204	1,421,107

MINNEAPOLIS, Jan. 26.—Not much doing in the local flaxseed market in the past week. Day to day receipts were small and demand for offers continued good to strong. Seed house buyers were most aggressive and took care of the choice offers very readily at advancing premiums. Crushers competed at intervals and had to meet the bids of seed house buyers. Premiums gained 1c. to 2c. in the week and the undertone of the market still is strong. At the start of the new season premiums were unusually strong on account of the quality of the new seed.

Shipping advices from the country are light and there is no important movement in sight. Currently the out movement exceeds the in movement by 100 percent. In addition to supplies being shipped to outside crushing mills there is a steady flow of seed flax to country points. Movement to Iowa is exceeding expectations. Stocks in local public elevators decreased 85,000 bushels in four days compared with a decrease of 25,000 bushels in the same period a year ago. Farm movement is light because of the increasing tendency to save seed and also because of severe weather conditions.

The week's closing price range was as follows:—

	Cash.	May.	July.
Saturday	$2.19	$2.05	$2.03
Monday	2.19	2.06	2.03
Tuesday	2.17½	2.04½	2.01½
Wednesday	2.18	2.05	2.01½
Thursday	2.15½	2.02½	2.00
Friday	2.16	2.03	2.00

Crop movement in bushels follows:—

	Receipts 1940.	Receipts 1939.	Shipments 1940.	Shipments 1939.
This week	32,200	19,200	30,800	10,800
Since Sept. 1..	3,741,200	1,474,340	1,646,000	456,100

Current prices on animal, vegetable, and fish oils (under Oil), fats, and greases (under Grease) are given in the alphabetical list of prices beginning on page 7

STEARIC ACID
Single Pressed and Double Pressed
Available in either cake or flake form
Triple Pressed
IVORY BRAND

RED OIL
(OLEIC ACID)

RUBY OLEINE BRAND (*distilled*)
STAR BRAND (*saponified*)
CANARY BRAND
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Palm Oil Fatty Acids Corn Oil Fatty Acids
Lauric Acid Specialty Fatty Acids
Glycerine - Pitch - White Oleine
FACTORIES: Dover, Ohio - Los Angeles, Calif. - Toronto, Canada
CALIFORNIA OFFICE: 5636 East 61st Street, Los Angeles
Cable Address "EPILOGUE"

WINNIPEG, Jan. 26.—The market for flaxseed futures was quiet. The week's closing price range was as follows:—

	Cash.	May.	July.
Saturday	$1.94	$1.98	$1.95
Monday	1.93¼	1.96½	1.94
Tuesday	1.91¾	1.93	1.93
Wednesday	1.93¼	1.96½	1.94
Thursday	1.91	1.94	1.92¾
Friday	1.92½	1.95½	1.92½

BUENOS AIRES, Jan. 26.—Opening prices per bushel on February contracts were:—

	Last week.	Last year.
Saturday	$1.26⅛	$1.07
Monday	1.25⅜	1.07
Tuesday	1.25⅛	1.06¼
Wednesday	1.24⅜	1.06⅜
Thursday	1.24⅜	1.06⅛
Friday	1.24⅜	1.06⅛

Exports

To—	Bushels— Last week.	Previous week.	Last year.
United States	.....	941,000	484,000
United Kingdom	350,000	173,000	110,000
Continent	358,000	681,000	476,000
Orders	598,000	.....	291,000
Others	.....	.....	220,000
Totals	1,306,000	1,795,000	1,581,000

Since January 1

To—	Bushels— This year.	Last year.
United States	1,504,000	2,314,000
United Kingdom	1,349,000	185,000
Continent	2,110,000	1,976,000
Orders	598,000	1,334,000
Others	4,000	240,000
Totls	5,565,000	6,049,000

Visible Supply

	Bushels.
Last week	3,150,000
Previous week	2,953,000
Last year	4,724,000

HULL, Jan. 26.—La Plata flaxseed quoted at £15 9/16 per long ton; Bombay, £21½.

Linseed Oil.—A fairly steady tone prevailed in the local market for linseed oil, quotations generally being held by crushers at the reduced levels announced in the previous week. There was nothing in the action of flaxseed markets to bring about any change in the attitude of consumers of oil, and business remained quiet although there were reports of some increase in withdrawals on unfilled contracts. Northwestern advices noted a good demand for seed for planting purposes and reports continued to be received to the effect that the next acreage in this country will probably show a substantial increase.

Linseed oil producers were forced to compete for supplies of cash seed in Northwestern markets owing to the increased demand from seed houses. It was reported that the acreage in California shows an increase this year but that the area under cultivation in Texas was not increased to the extent that had been expected because of dry weather. Advices from Imperial California, reported the sale of all the flaxseed from 15,000 acres at a premium of 12½c. per bushel over September at Minneapolis at the time the seed is delivered.

According to official statistics 24 mills in this country crushed 244,599 tons of flaxseed during the quarter ended with December last against 201,780 tons in the same time last year; linseed oil produced 166,149,616 pounds against 139,106,266 pounds.

MINNEAPOLIS, Jan. 26.—Linseed oil declined ½c. per pound late last week and this was a cue to buyers to hold off. Weaker tone of Argentine markets is also given as an excuse by some in the buying trade. Others feel that they have fairly well covered their requirements up to spring and are content to wait on acreage news before making fresh commitments.

Shipping instructions on maturing contracts are good and there are few old contracts to take care of because buyers have needed supplies about as fast as they have been produced this past fall and early winter.

Quotations on carload lots, f.o.b. Minneapolis, tankcar, 10.2c. per pound; cooperage car, 10.8c. per pound; warehouse lots, 11.2c. per pound.

Shipments of oil in pounds were as follows:—

	1940.	1939.
This week	2,520,000	960,000
Since Sept. 1	57,460,000	30,387,332

SAN FRANCISCO, Jan. 24.—Linseed oil quiet. Tankcars, 10.1c. per pound; drum lots, ex-mill, 10.7c.; drum lots, exwarehouse, 11.1c.

CHICAGO, Jan. 26.—Most of the orders for linseed oil specify prompt shipment, and there is a tendency to limit orders to rather small quantities. Tankcar, 11.2c. per pound; car lots, 11.8c.; less than car lots, 12.2c.

LONDON, Jan. 26.—Linseed oil, 40s. 6d. per cwt.

Cake and Meal.—Linseed cake was easier, quotations being reduced $1.50 per ton. Meal unchanged. Domestic and export trade remained quiet.

MINNEAPOLIS, Jan. 26.—An unorganized soybean meal trade was responsible for weakness in the local linseed market during the past week. Not a few of the buyers invested in soybean offered them by smaller millers and these mills were apparently operated somewhat inefficiently because most of them were slow in filling early contracts and now that they are going have no facilities to store their surplus production. This makes a bad situation for the linseed meal sellers and they are meeting competition in order to keep their floors clean.

Quotations on carload lots, f.o.b. Minneapolis, 100 pound sacks, $33 to $34 per ton.

Shipments of meal in pounds were as follows:—

	1940.	1939.
This week	3,700,000	1,760,000
Since Sept. 1	86,630,000	47,946,650

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WAH CHANG TRADING CORPORATION
Woolworth Building
SPOT New York, N. Y. FUTURE

THE H. L. ALBERS COMPANY
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SOYA BEAN OIL COTTON SEED OIL
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Cottonseed Oil

Refined cottonseed oil futures were irregular in the local market, price movements being narrow. Southern markets had a generally steady tone.

Cottonseed Oil.—The local market for refined cottonseed oil futures was irregular last week, changes in prices being within comparatively narrow limits. Trading continued quiet much of the time, few operators being disposed to add materially to their commitments on either side of the account. Commission house business was generally on a small scale in the absence of stimulating developments in outside markets. Additional tenders on January contracts brought the total for the month thus far up to 25. March was switched to July at 23 points difference and to September at 29 points. May was switched to July at 11 points difference.

Crude oil was quiet and prices in some sections were ⅛c. lower. Trade in cash refined oil was reported as quiet. Coconut oil was slightly lower, while corn oil advanced a small fraction. The export movement of lard was somewhat larger but shipments from Atlantic and Gulf port to all destinations for the season to January 20 were 23,500,000 pounds smaller than in the same time last season. The trend of hog prices was again downward as marketing of hogs continued heavy despite extremely low temperatures and heavy snows.

Receipts of hogs in the principal Western centers for four days of the week aggregated 386,200 head against 238,900 head in the same time last year. The weight of the hogs continued to increase, arrivals in Chicago during the week ended January 20 averaging 243 pounds against 238 pounds in the previous week, 236 pounds in the week before that and 233 pounds in the week ended December 30. The quantity of cotton ginned for the season to January 16 was 11,404,924 bales against 11,552,913 bales last season.

Trading in bleachable prime Summer yellow cottonseed oil futures on the New York Produce Exchange from January 20 to January 26, inclusive, comprised 515 contracts, a total of 30,900,000 pounds. Following is a price record for the week:—

	—Cents per pound in tanks— High.	Low.	Close.
March	6.95	6.75	6.78 sale
May	7.12	6.86	6.90@6.92
July	7.20	6.97	7.01@7.03
September	7.23	7.02	7.06 sale

Crude, Southeast, .05¾@.05⅞c. Nom.

Chicago, Jan. 26.—Cottonseed oil has been firming slightly. Good, off-Summer, yellow fig oil is 7⅜c. per pound. Refined, edible oil is 9¼c. to 9½c. per pound, barrels, car lots; and 9¾c. to 10c., barrels, less than car lots.

Hull, Pan. 26.—Cottonseed oil, refined, 30s. 6d. per 112 pounds; crude, Egyptian, 26s.

Cake and Meal.—Spot quotations underwent little change as a rule last week, the prevailing tone in Southern markets being steady. There was a fair movement of meal.

Markets at Other Centers

Atlanta, Jan. 24.—Cold temperatures are taken to mean the death of many cotton boll weevils and better acre yields this year.

Quotations on 8 percent cottonseed meal at Southeastern mill points are $32 to $32.50 per ton; prime crude oil, 5⅞c. to 6c. per pound.

Memphis, Jan. 26.—Crude cottonseed oil quiet at 5⅞c., Valley basis. Cake $26.75 per ton, Valley points, and $27.25 at Memphis, February shipment. Hulls $6 to $6.50 per ton, according to location. Cold with heavy snows in this territory.

Closing cottonseed meal quotations on the Memphis exchange were as follows:—

	January 18.	January 25.
January	$29.60@30.50	$29.00@——
March	28.30@28.45	27.40@——
May	27.80@28.00	26.50@26.75
July	27.60@27.90	26.30@26.60
September	.....	24.50@25.00

Fatty Acids

Capric Acid.—Fair movement of moderate lots to local and other consumers. Quotations stationary. Tone steady.

Castor Oil.—Raw material remained firm and quotations on castor oil fatty acid held at former levels. Business fairly active.

Coconut.—Trade quieter, an easier tone in basic material making consumers of fatty acid inclined to hold off.

Cottonseed Oil.—Quotations generally steady in the absence of any marked change in basic material. Somewhat larger movement of fatty acid.

Soybean.—A steady tone prevailed in the market for this fatty acid. Business lacked snap but an increase was noted in the call for moderate lots.

Stearic Acid.—Raw material was firmer and the market for stearic acid had a steadier tone. There was a fairly active demand for moderate quantities.

Chicago—Jan. 26

Fatty acids generally steady or firm. Orders are moderate in individual quantity, but are attaining good aggregate volume. Most buyers continue to want early delivery.

RED OIL.—Distilled or saponified, drums, 8½c. to 9½c. per pound; tanks, 8c. per pound.

STEARIC ACID.—Distilled, single press, 11½c. to 12c½ per pound; double press, 12c. to 13c.; triple press, 14¾c. to 15¾c.

OTHER FATTY ACIDS.—Corn oil, double distilled, 9c. to 9¼c. per pound, tankcar; 9½c. to 9¾c., barrels, car lots; coconut oil, acidulated, 10c. to 10¼c. per pound, tankcar, mostly nominal; 10½c. to 10¾c., barrels, car lots; cottonseed oil, double distilled, 8½c. to 8¾c. per pound, tankcar; 9c. to 9¼c., barrels, car lots; settled cottonseed soap stock, 60-62 percent basis, 3c. to 3¼c.; boiled down soap stock, 65 percent basis, 4c. to 4¼c.; cottonseed foots, 50 percent basis, 1¾c. to 1⅞c.

Fish Oils

Menhaden.—Refined oil firmer owing to the strength of crude. Selling schedules advanced two points by local interests. Business lacked snap, but a somewhat larger movement of moderate lots noted.

Sardine.—Local quotations on refined oil were advanced two points, the strength of the market being a reflection of recent developments in crude oil. Business was of a conservative character, the request for small or moderate lots showing some increase.

Sperm.—The market had a firmer tone but prices lacked quotable change. There was a steady movement into consuming channels on contracts and transient orders.

Markets at Other Centers

San Francisco, Jan. 24.—Fish oils are quiet and steady, with a small number of buyers in the market and fewer sellers. Trading reached the proportion of some 10 to 12 tankcars during the week in Northern California on the basis of 37 cents per gallon—the same price as obtained during the previous period for a like quantity of oil. Monterey Bay and the Southern California area combined still have some 100,000 tons of fish to process on open reduction yet, or about 500 tankcars. No trouble is being experienced around Monterey Bay, where, during one single day last week, an all-time record for a day's catch was hung up with a total of 6,724 tons. Fishing is slow in the South. For the entire week a total of 6,845 tons was recorded, and while Northern California is far ahead of last season at this time, the South is lagging behind.

Official figures as issued by the California Sardine Products Institute for the week ended January 19 revealed a total of 23,282 tons of raw sardines turned into the plants in all State districts. San Francisco Bay accounted for 1,781 tons; Monterey, 14,656 tons, and Southern California, 6,845. The seasonal catch on that date totaled 469,619 tons, compared with 446,501 tons a year ago.

Baltimore, Jan. 24.—The menhaden fishing companies that operate off the coast of North Carolina are still putting out their seines, the first time in years this has happened, and they are catching enough fish to make the work a paying proposition. The fish are small and yield virtually no oil, but the production of other materials makes the business profitable to some extent. No further sales of oil have been reported, and no additions to the stocks of this commodity have been made. Some oil is being offered at 34 cents per gallon, while another holder asks as much as 35 cents for a couple of tanks. Buyers are not in a hurry to take up such supplies, however, and business lags.

Current prices on animal, vegetable, and fish oils (under Oil), fats, and greases (under Grease) are given in the alphabetical list of prices beginning on page 7

Fats and Greases

Grease.—The market was firmer, quotations in some instances being raised ⅛c. A fair request wos noted. Stocks were said to be comparatively small or moderate.

CHICAGO, Jan. 26.—Choice white grease, tierces, 5¼c. to 5½c. per pound; A white, 5¼c. to 5⅜c.; B white, 5⅛c. to 5¼c.; yellow, 16-20, 5c. to 5¼c.; yellow, 10-16, 5c. to 5⅛c.; brown, 4⅞c. to 5c.

Lard.—Local cash market had an easy tone as the trend of futures in the West was mainly downward. Domestic trade fair. Export movement somewhat larger than recently, though shipments for the season thus far considerably smaller than last year. Hog receipts heavy and weight still increasing.

CHICAGO, Jan. 26.—Domestic buyers of cash lard are cautious. Shipping trade fair. Futures easier. Following is a price record, per 100 pounds, for the week:—

	High.	Low.	Closing Jan. 26.	Closing Jan. 19.
Cash	$6.22	$6.05	$6.10	$6.30
May	6.62	6.37	6.40	6.65
July	6.80	6.55	6.60	6.85

Stearin.—Trade was generally reported as quiet. Quotations were shaded ⅛c. to ¼c., the tone of the market being steady late in the week.

CHICAGO, Jan. 26.—Prime oleo stearin, barrels, 6½c. to 6¾c. per pound; lard, packaged, 6½c. to 6⅝c., white grease, 5½c. to 5¾c.; yellow grease, 5¼c. to 5½c.; oleo stocks, 8½c. to 9c. per pound; No. 2 stocks, 8c. to 8½c.

Tallow.—The market here was somewhat more active, though such transactions as were reported did not involve important lots, large buyers being inclined to hold off so far as prompt delivery tallow was concerned. Offerings were generally light, and the market had a steadier tone, the last business reported being at 5½c. per pound for extra.

CHICAGO, Jan. 26.—Edible tallow, tierces, 5½c. to 5⅝c. per pound; prime, 5⅜c. to 5⅝c.; fancy, 5⅜c. to 5½c.; special, 5½c. to 5¼c.; No. 1, 5c. to 5⅛c.

Trading in tallow futures on the New York Produce Exchange from January 20 to January 26, inclusive, comprised 3 contracts, a total of 180,000 pounds. Following is a price record for the week:—

	Cents per pound in tanks High.	Low.	Close.
March	...	...	5.40 bid
April	5.65	5.65	5.45 bid

Animal Oils

Lard.—A steady tone prevailed, quotations being held at the reduced levels announced in the previous week. Consumption is said to have increased recently. New business last week, however, was quiet.

CHICAGO, Jan. 26.—Lard oil No. 1, 8¾c. to 9c. per pound.

Neatsfoot.—No broadening of trade was noted, but an increase was reported in the request for moderate quantities for prompt shipment. Quotations were stationary.

Oleo.—Business was generally along conservative lines, the request from local and outside consumers for moderate quantities being reported as fair. Prices steady.

CHICAGO, Jan. 26.—Prime oleo oil, 8c. to 8¼c. per pound.

Tallow.—Market steadier, though prices without change. Business routine.

CHICAGO, Jan. 26.—Acidless tallow oil, 8¼c. to 8½c. per pound, tanks.

Waxes

Bayberry.—Fair demand. Prices low and attractive.

Bees.—African quoted 27c. to 28c. per pound as to quantity. Brazilian, 27c. to 29c. Importers said market tended to be soft. Refined and bleached waxes steadily held as to price.

Candelilla.—Reports of price shading still current. Most sellers maintained 18c. to 19c. per pound.

Carnauba.—Inquiries reported very good. Interest shown tends to check influence of recent developments in primary market. Spot quotations lower. Market, ton lots:—No. 3 chalky, 43c. to 44c. per pound; No. 3 Country, 46c. to 47c.; No. 1 yellow, 69c. to 70c.; No. 2 yellow, 68c. to 69c.; refined, 53c. to 54c., subject to shading.

Japan.—Market shaded to 16c. to 16½c. per pound.

Spermacetti.—Prices holding. Not all sellers quoting at minimum prices noted. Competition seemed more active.

Bromine to Be Made by American Potash Co.

—*Continued from page* 3

available. During 1939 over 1,000,000,000 gallons of brine entered the Trona plant carrying therein nearly 10,000,000 pounds of bromine, or, an average of over 13 tons of bromine per day.

The main Trona process is a cyclic one of alternate concentration and fractional crystallization in which the brine is ultimately evaporated to dryness, with separation and recovery of the various salts contained therein. In certain of the concentrated liquors, the bromine concentration reaches 100 times that of seawater. It is from such concentrations that the bromine is to be recovered as a by-product, since at least its partial removal has been made necessary in connection with certain other developments.

The Trona research and engineering staffs, with their past experience in the successful handling of many complex chemical engineering problems on a large tonnage basis, have carefully planned this latest development with the aid of one of the foremost authorities in the bromine industry. An adaptation of the well-known process of chlorination will be used, followed by volatilization of the free bromine. It is planned to doubly refine the liquid bromine.

In addition to the production of liquid bromine, various technical and refined grades of alkali bromides will be crystallized, including the highest quality of sodium, potassium and ammonium bromides for the pharmaceutical and photographic chemical trades.

The equipment to be used in both the bromine and bromide plants is of the most modern and efficient design. At this time it is not intended to recover the entire quantity of bromine available in the Trona operations. The present installation is designed to produce from 2,000,000 to 3,000,000 pounds of liquid bromine annually, or equivalent bromides.

Tung Oil Industry In Burmah Expanding

Burmah's tung oil industry, inaugurated about eleven years ago, has shown a rapid expansion, according to advices to the Department of Commerce from the commercial attache in Shanghai. Cultivation of tung trees in Burmah from the beginning was on a strictly commercial basis and the industry has been supported by British paint and varnish manufacturers through a company known as "The Tung Oil Estates, Ltd." This company now has 4,000 acres planted in tung trees in addition to many thousands of acres under lease, but not yet developed. It is estimated that in the course of the next ten years Burmah will be in a position to produce 10,000 tons of tung oil annually.

Oil Trades Ass'n Makes Bergen Honorary Member

Dennis E. Bergen has been elected an honorary member of the Oil Trades Association of New York, a unique distinction in that he is the association's first and only honorary member. Mr. Bergen was one of the organizers of the association, served as treasurer for the first six years and was president in 1923. He retired as an active member last December.

Oils, Rosin in Salvage Sale

The United States Engineer Office of the War Department, New Orleans, has asked for bids on the salvaged cargo of the sunken steamship, "Edgar F. Luckenbach," which is to be sold February 23. Among the items offered in this sale are:—

Lard compound, 2,790 cans and 202 barrels, aggregating approximately 100,850 pounds.

Oil, cooking, 48 barrels of 55 gallons.

Oil, "Wesson," 183 cans of from 1 pint to 5 gallons.

Rosin, approximately 36,047 pounds.

Particulars may be obtained from the United States Engineer Office, 837 Gravier street, New Orleans.

Oil Trades Annual Dinner Attendance Reached 300

The Oil Trades Association of New York held its regular quarterly meeting and dinner January 23 in the Waldorf-Astoria Hotel. About 300 members and guests were present, including representatives from all branches of the oil industry here and in other parts of the country. Dinner was served at 8 p. m. and was preceded by a short business session and followed by a vaudeville entertainment. A social gathering was held after the meeting.

Potash Discoveries Reported in Switzerland

OPD Washington Bureau
January 23, 1940

The Swiss press has reported that satisfactory results have been obtained from the recent granting of concessions for the exploration and development of production of potash in the Cantons of Baseballand and Aargau, according to Department of Commerce.

While details of the developments are lacking, the press gives assurances that deposits of potash have been found which, upon development, will be sufficient to permit the gradual supply of Switzerland's needs from domestic sources, thus avoiding imports. The present imports into Switzerland of potash and potassium compounds are valued at about 2,000,000 Swiss francs. The principal sources of supply are Germany and France.

The I. L. I. Company, concessionaire for the Marada basin in Libya, completed in the summer of 1939 its first experimental season with an output of 2,100 metric tons of potash salts. Although hampered by transportation obstacles, the industry contemplates production of 25,000 tons minimum in 1940. A road is being constructed from Maaten Ciofer to Ras Aali to facilitate movement of potash from Marada to the Sea, according to the American embassy in Rome.

"Southern Pines Pay" is the title of a new publication just issued by the Department of Agriculture, Washington.

Margarin Manufacturing Operations Off in Nov.

According to figures reported to the Bureau of Internal Revenue, Washington, the margarin manufacturers' production in November, 1939, compared with November, 1938, as follows:—

	Pounds November, 1939.	November, 1938.
Production of uncolored oleomargarin	*27,743,186	†30,098,029
Withdrawn tax-paid	27,689,512	29,778,769

Ingredients used in the production of colored and uncolored margarin in November, 1939, compare with November, 1938, as follows:—

In Uncolored Margarin

	Pounds Nov. 1939.	Nov. 1938.
Babassu oil	1,057,357	642,668
Coconut oil	2,108,369	6,976,189
Corn oil	34,171	113,343
Cottonseed oil	9,683,122	10,793,497
Glycerin derivative	71,858	73,700
Lecithin	7,097	8,782
Milk	5,307,196	5,809,056
Neutral lard	115,957	108,282
Oleo oil	730,764	922,302
Oleo stearin	227,795	260,927
Oleo stock	84,130	107,983
Palm kernel oil	.....	18,234
Peanut oil	200,828	245,562
Salt	1,201,100	1,264,551
Soda benzoate	10,503	11,616
Soybean oil	8,039,038	4,284,522
Soybean stearin	.....	7,349
Vitamin concentrate	1,690	1,215
Totals	28,880,915	31,649,868
Production of colored oleomargarin	§142,724	§122,850
Withdrawn tax-paid	29,248	32,948

In Colored Margarin

	Pounds Nov. 1939.	Nov. 1938.
Coconut oil	45,243	46,929
Color	164	141
Corn oil	25	136
Cottonseed oil	17,602	13,356
Cottonseed stearin	855	.....
Glycerin derivative	354	261
Lecithin	55	6
Milk	29,503	29,131
Neutral lard	3,752	3,962
Oleo oil	14,241	17,959
Oleo stearin	456	490
Oleo stock	1,310	1,164
Palm kernel oil	.....	66
Peanut oil	301	85
Salt	8,456	6,131
Soda benzoate	47	49
Soybean oil	35,037	18,557
Soybean stearin	.....	27
Vitamin concentrate	3	1
Totals	157,398	138,451

* Of the amount produced, 27,029 pounds were reworked.
† Of the amount produced, 24,163 pounds were reworked.
‡ Of the amount produced, 128 pounds were reworked.
§ Of the amount produced, 77 pounds were reworked.

Japanese Whalers Extend Operations to Ross Sea

OPD Washington Bureau
January 23, 1940

The six Japanese Antarctic whaling expeditions started operations December 8 last when the international season opened. A radio from the Tonan Maru No. 3 advised that twenty-six finback whales, some of them 90 feet long, were harpooned the first day of the season, according to the Department of Commerce.

It is reported that for the first time in twenty-eight years the Japanese whalers this year will penetrate the Ross Sea, southermost patch of open water, which is navigable to within 14 degrees of the South Pole.

A. J. Pacini, of the Archer-Daniels-Midland Company, addressed the January meeting of the Minneapolis-St. Paul Paint, Varnish and Lacquer Association.

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Drugs, Fine Chemicals

Sensational Advance in Foreign Quicksilver Price — Domestic Mercury Advance Half That Abroad—Mercurials Not Changed Promptly—Tartar Products Higher—Seasonal Items Active

Once more developments in quicksilver prices dwarfed other market events. On Thursday, European sellers advanced prices $50 the flask, and domestic mines raised theirs $21. Regardless of the sensational character of the raw material price advances, quotations on all mercurials were not promptly raised. Nor did the producers of those entities seem disposed to do other than sit tight and await developments. Possibly the fact that consumers' stocks at the end of last November totaled 8,700 flasks and importers'-dealers' stocks were 2,400 flasks make it possible for mercurials manufacturers to remain out of the mercury market. They expressed the view that no single good reason for the advance could be cited. Little buying was reported.

Outside the quicksilver developments, the drug and fine chemical market passed through a week of excellent activity that in no wise differed from that in recent periods. Seasonal items were in seasonal request to a highly satisfactory extent. Tartar products were advanced again. Other materials also moved in good volume. The outstanding aspect of the market was the general stability of most prices.

Acid, Tartaric.—Prices advanced 2c. Market: 10,000-pound lots, one shipment, 35¼c. per pound; smaller lots, barrels, 35¾c.; kegs, 36¼c.

Alcohol. — Market firm. Normally active with future reported encouraging. Consumers trading freely. Prices fully maintained. Minimum of price competition reported. Comparative statistics on pure and denatured ethyl alcohol for July-December in 1939 and 1938, as prepared by the Alcohol Tax Unit, Bureau of Internal Revenue, Treasury Department, Washington, D. C., follow:—

Ethyl Alcohol

	Proof gallons—1939.	1938.
Production	119,122,585	98,511,953
Withdrawn, tax paid	11,990,717	11,304,485
Tax free	122,791,879	98,318,333
Stocks, December 31	14,613,608	29,894,937

Denatured Alcohol

	Wine gallons—1939.	1938.
Completely		
Produced	11,631,375	14,063,701
Removed	11,945,239	14,322,715
Stocks, December 31	304,976	426,639
Specially		
Produced	57,024,634	41,414,690
Removed	57,446,549	41,022,107
Stocks, December 31	868,491	851,887

Bonded Dealers

	Wine gallons—1939.	1938.
Specially denatured—		
Received from denaturing plants	1,928,648	1,749,644
Disposed to bonded manufacturers	1,992,664	1,721,615
Inter-dealer shipments	21,600	28,005
Stocks, December 31	310,630	306,149

Ammonia, Benzoate.—Trading quiet, steady, at good volume. Prices firm.

Ammonia, Bromide.—Routine trading at firm prices. Interest normal.

Ammonia, Citrate.—Stabilized prices contribute to normal activity.

Ammonia, Chloride.—Seasonal demand excellent. Market fully firm.

Antipyrene. — Seasonal movement maintained. Values well stabilized. Good reserves available.

Bismuth Metal and Salts.—Sellers report firm market. Consumption normal. All prices free from unsettlement.

Borax.—Contract tenders being taken out well. Consumption approximating estimates. Market fully firm.

Cadmium Metal.—Strong position maintained. Price advance holds. Sales in fine volume. No surplus of supply.

Caffeine.—Fairly broad trading interest noted. Firm prices the rule. No accumulating surplus of stocks.

Calcium Gluconate.—Inquiry very good. Sales volume maintained well. Price stability the rule.

Camphor.—Japanese material strong. Arrival of shipments subject to delay. Caused by curtailment of steamer service, resulting from abrogation of trade pact with Japan last Friday. Domestic synthetic firm to strong. Production cost rising; raw material, turpentine reaches 32¼c. per gallon. Savannah. Spot, 37¾c. Production well sold ahead. India's camphor imports, 1938-1939, totaled 1,868,694 pounds, compared with 1,771,471 pounds, previous fiscal year.

Price Changes

Advanced

Cream of tartar, 1½c. per lb.
Quicksilver, European, $50 per flask.
domestic, $21 per flask.
Rochelle salt, 1c. per lb.
Seidlitz mixture, ¾c. per lb.
Tartaric acid, 2c. per lb.

Reduced

None

Comparative Values

Index numbers compiled from thirty-five typical drugs and fine chemicals on the basis of 100 for August 1, 1914, compare as follows:—

Last week.	Prev. week.	Last month.	Last year.
197.6	**196.7**	**196.4**	**182.6**

Market news that may have developed after this report was sent to press will be found on page 4.

Castor Oil.—Prices unchanged. Market strong. Production behind demand. Raw material cost trend still up.

CHICAGO, Jan. 25.—Castor oil prices are:—No. 1, barrels, car lots, 13⅝c. per pound; barrels, less than car lots, 14⅜c.; returnable drums, car lots, 13⅜c.; drums, less than car lots, 14⅛c.; tanks, 12⅞c.; No. 3, barrels, car lots, 13⅛c.; barrels, less than car lots, 13⅞c.; returnable drums, car lots, 12⅞c.; drums, less than car lots, 13⅝c.; tanks, 12⅜c.

Codeine. — Seasonal requirements keep producers in excellent production. Prices well stabilized.

Codliver Oil.—Market rather quiet. Active along usual lines. No exceptional demand. Nothing heard regarding Norwegian fishing. Start of season of normal output not far off. Prices steady.

Cream of Tartar.—Advanced again. Prices: 5,000-pound lots, 28¼c.; smaller lots, 28¾c. to 29¼c.

Epsom Salt.—Trade somewhat routine. Volume reported fair. Well stabilized price position.

Ergot.—Strong market at $3.85 per pound. Nothing offered from abroad. Neutral European nation seized one ton afloat to spot when steamer makes call at neutral port.

Formaldehyde.—Good business done. Consumers taking tenders out promptly. Prices firm and well stabilized. Argentina imports rise to 95,187 kilos first half 1939, comparing with 7ð,070 kilos corresponding period of 1938.

Glycerin.—Business excellent. Production moving promptly into consumption. No undue stock accumulation. Refiners report no lack of raw material. Prices continued well stabilized.

CHICAGO, Jan. 25.—Glycerin prices are:—Chemically pure, tanks, 12¼c. per pound; drums, car lots, 12½c.; drums, less than car lots, 13c.; high gravity, tanks, 11¾c; drums, car lots, 12c.; drums, less than car lots, 12½c.

Iodine and Iodides.—Consumption compares well with that in recent weeks. Ahead of last year in some directions. Prices lack unsettlement. Nominal competition current.

Magnesia.—Persistent call for all va-

Current prices on drugs and the fine chemicals are given in the alphabetical list of prices beginning on page 7

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CINCHOPHEN
CINCHOPHEN SODIUM
ETHYL GLYCOCOLL HYDROCHLORIDE
GLYCYL GLYCOCOLL HYDROCHLORIDE
8—HYDROXYQUINOLIN
ISOBUTYL PARA-AMINOBENZOATE
NEO CINCHOPHEN
OXYQUINOLIN BENZOATE
OXYQUINOLIN CITRATE
OXYQUINOLIN SULPHATE
POTASSIUM OXYQUINOLIN SULPHATE
PHENOBARBITAL
PHENOBARBITAL CALCIUM
PHENOBARBITAL SODIUM
PROPYL PARA-AMINOBENZOATE
TETRA-IODO-PHENOLPHTHALEIN SODIUM
THEOPHYLLINE
BENZALDEHYDE
BENZYL ALCOHOL
BROMSTYROL
CINNAMIC ACID
DIACETYL
METHYL CINNAMATE
METHYL PHENYL ACETATE
PHENYL ACETIC ACID
BENZALDEHYDE
BENZYL ALCOHOL
BENZYL CHLORIDE
BENZYL CYANIDE
DIETHYL OXALATE
DIMETHYL UREA
DI-NITRO CRESOL
CYANO ACETIC ACID
ETHYL BROMIDE
ETHYL CYANO ACETATE
8—HYDROXYQUINOLIN—5—SULPHONIC ACID
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LIQUID BROMINE
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rieties. Sales mainly at full prices. Consumer needs supplied promptly from excellent stocks.

Mannitol.—Undertones steady. Prices more stable recently.

Menthol. — Duty paid replacement cost, Japanese material, higher than spot deliveries. Synthetic item receiving excellent call.

Mercurials.—Position rendered sensitive by sharp rise in quicksilver price. Producers going slow in reflecting rise.

Methanol.—Market steady. Movement satisfactory. Prices fully stable. Contract deliveries prompt in full volume.

Methylethyl Ketone. — Strengthened position maintained. Less competition from other materials. Prices firm.

Morphine. — Sulphate in excellent, and normal, seasonal demand. Price stability assured.

Phenobarbital. — Leading producers retain firm, unchanged prices. Normal consuming demand.

Phenolphthalein.—Good interest disclosed. Buying accompanies prices of full strength. No signs of pending unsettlement.

Potash, Bicarbonate.—U.S.P. moving freely. Call up to normal.

Potash, Bromide.—Quiet, steady and entirely normal demand.

Potash, Carbonate.—Less call for U.S.P. Trade routine. Prices hold.

Potash, Guaiacolsulphonate. — Seasonal demand excellent. Firm undertones and prices the rule.

Potash, Sulphate. — Deliveries of U.S.P. goods conservative. Stocks none too maple. Prices in keg packing alone firm.

Quicksilver. — European quicksilver advanced to $200 per flask, basis port-of-origin; ex store, $207. Domestic metal up to $175 per flask. Rise abroad was $50. Consumers, this country, not excited by advance. Declare domestic price is already unreasonably high. Continued to sit tight. November report, Bureau of Mines, follows:

	Flasks	
	Nov.	Oct.
Consumption	2,400	2,800
Production	1,600	1,500
Imports	1,100	200
Exports	223	364
*Stocks, consumers	8,700	8,500
Importers, dealers	2,400	2,400

* Consumer stocks in plants, bonded warehouse, and domestic transit.

SAN FRANCISCO, Jan. 25.—Quicksilver advanced to $175 per flask following $50 rise in European quotations on metal. Buyers unresponsive. Local firsthands show disposition to maintain market as quoted.

Quinine.—Firm and active market. Conditions encourage highly seasonal consumption. Foreign situation makes for strong price position.

Rochelle Salt.—Market up. Prices: Powder,5,000-pound lots, 21¾c.; smaller lots, 22¼c.; crystals, 5.000-pound lots, 22¾c.; smaller lots, 23¼c.

Saccharin. — Demand still above average. Producers satisfying all domestic consuming needs promptly. Going slow in accepting business arising from war-time conditions.

Salol. — Normal demand current. Prices firm. Ample supplies.

Santonin.—Demand at low ebb. No price weakness.

Seidlitz Mixture.—Higher again. Market: 5,000-pound lots, 17⅝c. per pound; smaller lots, 18⅛c.

Silver Nitrate.—Price schedule, basis 100-ounce lots. Smaller lots cost 1c. to 2c. more; 500 ounces, about 1c. less. Table compares prices on bullion, New York and London.

	Per ounce		
	Nitrate.	Bullion	
	Cents.	New York. Cents.	London. Pence.
Saturday	26⅞	34¾	22
Monday	26⅞	34¾	22
Tuesday	26⅞	34¾	22
Wednesday	26⅞	34¾	22
Thursday	26⅞	34¾	21 13/16
Friday	26⅞	34¾	21 13/16

Soda, Alginate.—Spot prices steady. Demand maintained. Imports, 1938, 3,696 pounds, New York Customs District. All came from United Kingdom. No comparative data available. United States Tariff Commission reported figure.

Soda, Benzoate.—Fair interest shown in Spring deliveries. Prices apparently stable.

Soda Cacodylate. — Moderate trade noted. Market quiet but steady.

Soda Citrate. — Consumers cover needs as they arise. Full price stability certain until October, 1940.

Soda Mandalate. — Demand about normal. Little change from recent volume. Quotations steady.

Soda Perborate.—Business exceptionally steady. Market undertones firm. Prices stable.

Strychnine. — Normal consumption noted. Prices show firmness.

Tartar Emetic.—Prices still nominal. Deliveries curtailed by raw material situation. Strong undertone.

DuPont Co Is Offering Ethyl Polychlorobenzene

Ethyl polychlorobenzene, a new highly stable liquid for a variety of industrial uses, is announced by E. I. du Pont de Nemours & Co. Properties of the chemical suggest its application as a heat transfer fluid, dielectric for electric condensers, fluid for pressure control mechanisms and non-flammable lubricant. Chemical and physical properties of the material are outlined in a technical bulletin just issued by the R. & H. chemicals department of the company. The new chemical is composed of ethyl tetrachlorobenzene and ethyl pentachlorobenzene in approximately equal proportions.

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CHEMICALLY PURE—B. P.
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MONSANTO CHEMICALS
SERVING INDUSTRY . . . WHICH SERVES MANKIND

Rubbing Alcohol Sales Restricted

—Continued from page 5

rubbing alcohol may be packaged only in pint bottles and each bottle must bear a label identifying the manufacturer and giving a lengthy caution notice describing the restrictions on the method of sale.

In addition to the formal regulation, the Treasury Department has obtained an agreement from manufacturers of rubbing alcohol to curtail their production by 20 percent from that of last year, and also an agreement that rubbing alcohol will not be used as a "loss leader." No change in the denaturing formula for rubbing alcohol has been made, but research is continuing in an effort to discover a more satisfactory denaturant.

The investigation of rubbing alcohol sales was begun by internal revenue agents in May, 1939, and the field work was completed September 15. Agents reported considerable sales by retail outlets for beverage purposes in the larger cities of Vermont, Pennsylvania, Maryland, North Carolina, South Carolina, Georgia, Alabama, Kentucky, Tennessee, Ohio, Michigan, Louisiana, Missouri, Minnesota, Idaho, Montana, and Washington. In most cases the agents disguised themselves as tramps and induced retailers to sell them rubbing alcohol for beverage purposes, in many cases being advised by the dealer to disguise the taste with peppermint candy or soft drinks. In several cities this evidence was sufficient to cause the arrest and indictment of many retailers. In other sections retail druggists cooperated with the revenue agents in making the survey and in suggesting remedies, and it is significant that a great many druggists recommended that rubbing alcohol and bayrum be made only from tax-paid alcohol.

The denaturing formula for rubbing alcohol used from 1935 to November, 1938, and known as No. 23-G, was abandoned because of the discovery that it was being cracked by bootleggers. The present formula, No. 23-H, was adopted in the hope of stopping the diversion to beverage uses, but statistics show that this effort has not been successful. During the fiscal year 1937 withdrawals of rubbing alcohol totaled 3,420,840 gallons of the 23-G formula; whereas, during the fiscal year 1939 withdrawals of the 23-H formula were 3,257,096 gallons, which was a slight decrease from the 1937 figure but an increase of 5.8 percent over average withdrawals of the three preceding fiscal years. During the months November, 1938, to June, 1939, withdrawals of rubbing alcohol were 8.5 percent above those in the same months of the preceding year.

The Philadelphia collector has estimated that, of the 125,000 gallons of rubbing alcohol sold in his district in 1938, at least 20 percent was used for beverage purposes, and the collector in South Carolina reported that 30,000 cases of rubbing alcohol were sold in the retail trade in his State during the first six months of 1939 and at least 75 percent of it went for beverage use.

Collectors in Montana and Idaho have estimated that 10 percent of rubbing alcohol sold there was used as a beverage. In Toledo, Ohio, 80 percent of the arrests for drunkenness between June and September, 1939, were attributed to the consumption of rubbing alcohol by hoboes and derelicts.

Face Powder Boxes Must Not Be Slack

—Continued from page 5

ing, by a statement that the Food and Drug Administration does not feel that all empty space must be eliminated but that the "rule of reason" should prevail and the space left for a puff should be moderate, and sufficient for only a small puff.

It is stated that the administration has no authority to limit the size and type of container by ruling or regulation, and in the absence of court decisions interpreting the law the only guide is the language of the act and the application of common sense, but it is added that any tolerance now being admitted as permissible should not convey the conclusion that an unreasonably large space in the lid may be left empty. It is the present view of the officials that the label should state the fact if the box contains space for the accommodation of a powder puff.

Pharmacy Week Display Awards Are Made

The National Pharmacy week window display committee has awarded first place in the 1939 retailers' contest to the Moosbrugger Drug Company, Dayton, Ohio. This company will receive the silver cup provided by the Federal Wholesale Druggists Association.

The American Pharmaceutical prize for schools of pharmacy has been awarded to Temple University School of Pharmacy, and the Pennsylvania Pharmaceutical Association has been selected as the winner of the A.Ph.A. prize for pharmacal organizations.

Drug law seizures made during December, 1939, included because of packaging regarded as deceptive sixty-four cartons of corn salve, seventy-nine cartons of nasal jelly, and 678 cartons of dental cream.

Trade Briefs

American Pharmaceutical Association will hold its eighty-eighth annual meeting May 5 to 11 in Richmond, Va. Headquarters will be in the Jefferson hotel. L. C. Bird, 915 East Cary street, Richmond, is the local secretary.

Employees of wholesale establishments would be exempted from the maximum hours provisions of the wage-hour act under a bill (H.R. 8045) introduced in Congress by Representitive Joseph Casey, of Massachusetts.

Harry Enkel, trading as Sodasal Laboratories, Detroit, has been convicted of violation of the food, drug, and cosmetic act in marketing a product containing aminopyrine, deemed to be a dangerous drug. A sentence of $100 fine and one year's imprisonment was imposed, but the jail term was suspended and the defendant placed on probation for three years.

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• Years of manufacturing experience and the rigid standards that the product must meet for photographic requirements assure the highest purity and uniformity in Eastman Hydroquinone. Large-scale production makes possible prompt shipment from stocks that are always fresh.

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DERRIS EXTRACTS— with standardized Rotenone content.

LIQUID (5% Rotenone) in pine oil or acetone for agricultural sprays.

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SOFT and GRANULAR (15% to 38% Rotenone) for general manufacturing work.

ROTENONE
Chemically Pure for technical use.

RED SQUILL— Powdered and Extract— physiologically tested for efficient rat control. Supplants use of customary poisons dangerous to man.

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THE WORLD'S LARGEST BOTANICAL DRUG HOUSE

Chain Drug Stores Ass'n To Meet Feb. 12-14

—Continued from page 5

"Individual Sales Records," L. I. Shoemaker, National Cash Register Company.

Round table discussion—subjects of general interest:—C. B. Larsen, E. L. Chapotel, Frank Fleischman, Harry Goldstine, J. J. Clark, Harry Griffiths, R. A. McConnell, W. T. Lillie and Fred Roby.

Tuesday, Feb. 13

"Employees' Credit and Benefit Ass'n," A. R. Merrill, Peoples Drug Stores.

"Sales Incentive for Employees," Harry Griffiths, Pennsylvania Drug Company.

"Employees' Training Schools"—For Fountain Employees, Otto Eckerlein, Liggett Drug Company; for Drug and Toilet Goods Employees, J. L. Allen, Cunningham Drug Stores.

"Helping Boys Through College," Dr. Hugo H. Schaefer, dean, Brooklyn College of Pharmacy.

"Retail Selling Efficiency," M. I. Schultz, Willmark Service System.

"Profit Sharing," Donald Despain, Donald Despain Company.

Wednesday, Feb. 14

"Value of a House Organ," R. A. McConnell, Peoples Drug Stores, Inc.

"P. M. Control," A. S. Joseph, Liggett Drug Company.

"Importance of Payroll Records," T. H. Connell, International Business Machine.

"What's Wrong with Our Management," Fred Roby, Standard Drug Company.

"Personnel Relations," Ernest B. Lawton, R. H. Macy & Co.

"Better Sales Performance," "How the Retail Selling Winners Win," Richard Borden, director of sales promotion of the Borden Company.

Phila. Drug Exchange Re-elects Its Officers

—Continued from page 5

Mr. Brendlinger, in his annual message from the presidential office, reported with pride that the organization was financially healthy and functionally active. He compared the original purpose of the exchange to provide a buying and selling mart with the variety of matters, commercial and legislative, to which it more recently has devoted itself for the general development and advancement of the drug, chemical, and related industries. With respect to the past year he stressed particularly the legislative activity of the exchange which in large part had had to do with problems arising under the new Federal food, drug, and cosmetic act.

Memorial tribute was paid to the following deceased:—Thomas J. Doyle, Frank R. Jones, Mrs. Millicent R. LaWall, Howard J. Siegfried, Walter B. Swindell, jr., and R. E. Lee Williamson.

Cadmium Industry Shows Sharp Gain in 1939

Production and sales of primary metallic cadmium established new high records in 1939, according to figures compiled by the Bureau of Mines. Production amounted to 4,100,000 pounds, compared with 3,753,323 pounds in 1938, and with 3,995,739 pounds in 1937, the previous record year. Sales were 4,800,000 pounds, considerably more than double the 2,191,035 pounds sold in 1938 and about 19 percent above those in 1935, the previous record year. As a result of the excess of sales over production, producers' stocks were depleted in 1939.

In addition to the large domestic production, supplies were augmented by larger receipts of metal from abroad. Imports of cadmium during the first eleven months of 1939, according to records of the Bureau of Foreign and Domestic Commerce, were 360,820 pounds, compared with 22,582 pounds in 1938 and with 828,535 pounds in 1937.

Coty, Inc., cosmetic manufacturer, this city, has inaugurated a weekly bonus plan for employees with the company more than one year.

G. F. Coop, president of the Potash Company of America, has been spending several weeks on visits to the Baltimore office and to New York. He plans shortly to return to Carlsbad, N. M.

Obituaries

William A. Calder

William Alexander Calder, president of the British Institute of Chemistry, died recently in Worthing, England. Mr. Calder had been with F. W. Hills & Co., sulphuric acid manufacturer, at Deptford, for seven years, and from 1899 chemist and eventually general manager and director with Chance & Hunt, Ltd., Birmingham. He was manager of a government factory at Oldbury during the World War. Mr. Calder was a former president of the Society of Chemical Industry and of the Institution of Chemical Engineers, and had also served on the council of the chemical society. At the time of his death he was a member of the industrial chemistry committee of the Ministry of Labor.

Eugene Coste

Eugene Coste, founder of Eugene Coste & Co., consulting petroleum engineer and geologists, Toronto, died January 24. He was eighty-one years of age. Mr. Coste discovered the Bow Island gas field in Alberta in 1909. He bought the field from the Canadian Pacific Railway in 1912 and organized a company which distributed gas to Lethbridge and Calgary through a 200-mile pipe line, which was said to be the longest in the world at the time.

William A. Smiley

William A. Smiley, manager of the Philadelphia office for the D. H. Litter Company, manufacturers' agent, New York, died unexpectedly January 10. He was seventy-one years of age.

Born in Titusville, Pa., Mr. Smiley had been associated with the Union Petroleum Company and the Pure Oil Company in Western Pennsylvania and New York State previous to 1905, the year in which he went to Philadelphia to become general manager of the Terebentine Company. He was for a time associated with the Eagle-Picher Sales Company. Surviving are his wife and two sisters.

R. Carl Anderson, sales promotion manager for the Periseal Company, died unexpectedly of a heart attack January 14. He was forty-seven years of age. Prior to assuming the position of sales promotion manager of the Periseal Company, Mr. Anderson supervised the company's South Atlantic operations from headquarters in Atlanta. Surviving are his mother and one brother.

Nicholas E. Bates, assistant manager of the foreign trade development division of the foreign relations department of E. I. duPont de Nemours & Co., Wilmington, died January 21. He was forty-five years of age.

T. H. Bernhardt, president of the David Bernhardt Paint & Glass Company, Inc., New Orleans, died January 19 after a two weeks' illness. He was sixty-one years of age.

Benjamin C. Blowney, Cincinnati manager for the Geigy Company, died of a heart attack January 22. He was seventy-one years of age.

Hugh Clifford Colville, retired executive of the Newark Drum Steel Company, died in Plainfield, N. J., January 21. He was seventy-one years of age.

Dr. Gustave C. Lammers, retired bacteriologist and chemist, died in Los Angeles January 15. He was sixty-nine years of age.

Thomas Schmidt, laboratory assistant for Hoffmann-La Roche, Inc., pharmaceutical manufacturer, Nutley, N. J., died January 18. He was sixty-two years old. Surviving are his wife, Mrs. Elizabeth Mayzell Schmidt, a daughter, Miss Lillian Schmidt, and a brother, Stanley Schmidt, of Passaic, N. J.

Arthur Farragut Townsend, chairman of the directorate of the Raybestos-Manhattan Corporation, rubber manufacturer, this city, died in his home in Ridgewood, N. J. He was seventy-four years of age. Surviving are his wife and a son.

Botanical Drugs Spices, and Gums

Dandelion Stronger and Higher—Detentions Send Stramonium Up—Pinkroot at an Advance—Doggrass and Spikenard Down —Trade Gains Moderately—Replacement Markets Hold

Moderate improvement in demand developed in the market for botanical drugs last week. Sales volume rose conservatively but sufficiently to give added support to generally quoted prices. Competition likely to produce lower prices was not apparent in the local market. Dealers seemed content and able to await the rise of actual consuming requirements in keeping with sales of manufactured products and the reduction of raw material inventories.

Lack of a larger volume of business certainly has not led dealers to reduce prices in an effort to stimulate trading. Declines in prices have been numerous and substantial but in almost every instance the reductions merely set values back to a position more definitely in line with prevailing replacement costs. Abroad, sellers apparently believe that the value of their unsold stocks will be no lower than at present. They offer sparingly, maintain prices, show a tendency to default on low priced sales made earlier, and generally pursue a sales policy certainly not calculated to make spot merchandise substantially less in value.

Balsams

Copaiba.—Quiet, but steady demand at well maintained prices.

Fir.—Better call for Canadian material. Price steady. Oregon item quiet.

Peru.—Prices firm. Tendency upward. Demand normally active.

Tolu.—Sales confirm firm market at 85c. per pound minimum.

Barks

Barberry.—No oversupply on spot. No expansion in demand. Prices steady.

Black Haw.—Some gain in inquiry, but little change in sales volume. Country stocks in firm hands.

Buckthorn.—Strong prices. Stocks small. Strength of values based on replacement situation. Cut and sifted up to 20c. per pound.

Canella Alba.—Inquiry and sales routine and jobbing. Prices steady.

Cascara Sagrada.—Source reports fair export business. Foreign markets more active. Spot in normal position at firm prices.

Elm.—Trade very good. Call seasonal and close to normal.

Sassafras.—Business current in good volume. No stampede to buy.

White Pine.—Trade normally active. Prices well maintained.

Wild Cherry.—Consumption running to normal quantities. Prices stable.

Beans

Calabar.—No further price shading. Market steady. Little call.

St. Ignatius.—Small orders prevailed. Prices steady. Fair stocks.

Vanilla. — Trade rather routine. Prices show firmness, despite non-expansive character of demand. Replacement costs indicate no foreign weakness. Unsold stocks very small on this market.

Imports and Detentions

Entries of botanicals at the port of New York since the week of January 1, 1940, and the detention of these items by the Department of Agriculture because of the presence of matter rendering them unfit for human consumption were:—

	Bags Detained.	Bags Entered.
Anise	...	1,112
Belladonna	...	24
Caraway	...	6,108
Cardamom (cases)	...	27
Celery	...	2,238
Coriander	...	2,855
Cumin	83	1,581
Digitalis leaves (cases)	1	1
Dill	...	68
Fennel	60	317
Henbane leaves (bales)	72	107
Mustard	300	882
Poppy	...	5,647
Sage leaves (bales)	...	459
Sesame	...	3,055
Stramonium	112	112
Thyme	...	244

Price Changes

Advanced

Buckthorn, cut and sifted, 4c. per lb.
Dandelion root, 2c. per lb.
Ergot, 10c. per lb.
Ginger root, African, ¼c. per lb.
Jamaica, medium bold, ¼c. per lb.
Licorice root, bundles, 5c. per lb.
Larkspur seed, 15c. per lb.
Pink root, 4c. per lb.
Pimento, ⅜c. per lb.
Sunflower seed, California, large, ½c. per lb.
poultry grade, ⅜c. per lb.
Stramonium leaves, 2c. per lb.
Valerian root, 15c. per lb.

Reduced

Benzoin gum, Sumatra, 1c. per lb.
Buchu leaves, 3c. per lb.
Cassia, Batavia No. 1, ½c. per lb,
Canary seed, Morocco, ¼c. per lb.
Turkish, ¼c. per lb.
Argentina, ¼c. per lb.
Caraway seed, Dutch, ½c. per lb.
Russian, ¼c. per lb.
Doggrass root, cut, 2c. per lb.
Mustard seed, California brown, ¼c. per lb.
Roumanian yellow, 1c. per lb.
Nutmegs, 80's, ½c. per lb.
Peppers, black, Alleppy, ¼c. per lb.
Lampong, ½c. per lb.
Tellicherry, ¼c. per lb.
red, chillies, Japanese, ½c. per lb.
Spikenard root, 5c. per lb.
Saffron, Spanish, $2 per lb.

Comparative Values

Index numbers compiled from forty typical botanicals on the basis of 100 for August 1, 1914, compare as follows:—

Last week.	Prev. week.	Last month.	Last year.
188.7	186.6	183.3	118.6

Market news that may have developed after this report was sent to press will be found on page 4.

Berries

Cubeb.—Prices steady at recent reduction. Demand conservative.

Hawthorn. — Conditions appeared more favorable for buyers.

Juniper.—Stocks ample. Consumer holdings large. No buying pressure at this time. Some poor quality merchandise noted.

Raspberries. — Dried fruit firmly held. Fair stocks. Quotations steady.

Flowers

Arnica.—Strong market. Replacement costs warrant local quotations. Prices tend upward.

Calendula. — Prices firmer. No further tendency downward.

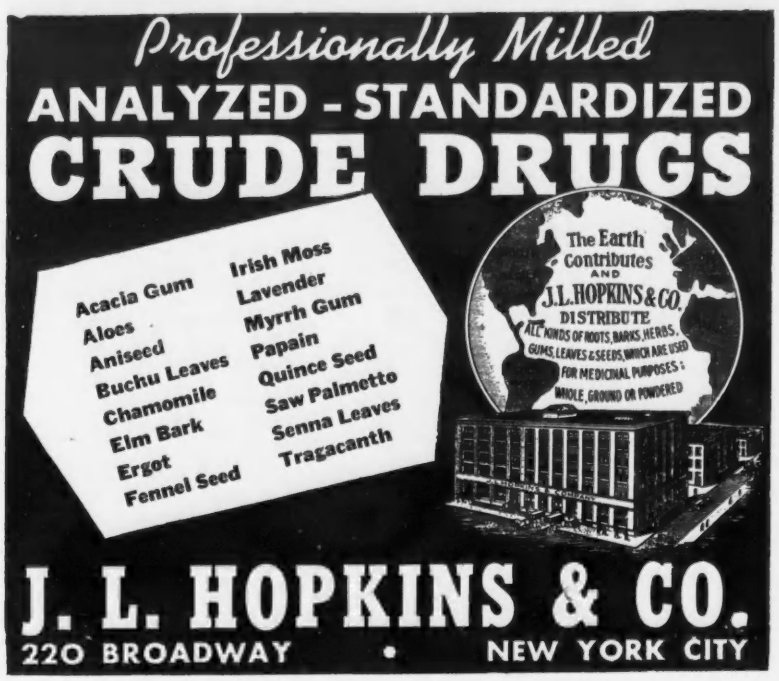
Chamomile.—Market strong. Foreign shippers' price views show no weakness on Hungarian item. Doubt exists regarding European carryover. Belgian article also in strong position.

Clover.—Fair spot stocks not readily replenishable abroad.

Lavender.—Conditions favor buyers. Competition rather keen.

Mullein. — Limited stocks concen-

Current prices on botanical drugs and spices are given in the alphabetical list of prices beginning on page 7



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. . . as stabilizer in ICE CREAM
BAKERY FILLINGS and CONFECTIONS
CHEESE Processing
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. . . as suspending agent in CHOCOLATE MILK
. . . as thickener and bodying agent in TEXTILE Printing
. . . as emulsifying and bodying agent in Cold Water PAINTS
. . . as suspending and finishing agent in LEATHER Dressings
. . . as bodying agent and stabilizer in TOOTH PASTE
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. . . or wherever a hydrophilic colloid or gum-like material is required.

ALGIN is an edible colloid, producing exceptionally high viscosity in water even if only a small amount is used. It is completely soluble in water and is superior to natural gums.

Algin is a definite chemical compound manufactured to exact specifications. It is free from extraneous impurities—requires NO boiling, testing, or other special treatment or handling. It is always uniform in its chemical and physical properties. As it is made from *domestic* kelp, uniform quality and uninterrupted service are assured.

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75 E. Wacker Drive CHICAGO
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trated in strong hands. Spring trade expected to be good.

Gums

Arabic. — Further decline brings sorts to 13½c. to 14c. per pound. Competition gaining. Consumer interest encourages competitive position of sellers.

Benzoin. — Seasonal interest displayed. Fair demand at 23c. per pound, lower.

Camphor.—Conditions strong. Japanese prices high. Cost of raw material for making domestic synthetic advancing. Rise in prices not unlikely. Heavy demond has engaged production well ahead.

Sandarac. — Small stocks. Firm prices. Little demand.

Herbs and Leaves

Aconite.—No weakness noted. Only moderate demand current.

Buchu. — Expected drop in price comes. Market, 77c. to 78c. per pound. Primary market making limited offerings new crop. Consumers aloof at present.

Damiana.—Stock shortage unrelieved. Price holds firm and high.

Henna. — Very good trade at prices yielding narrow profit. Exports from Egypt, previously banned, have been permitted since November 23 last.

Stramonium.—Market higher at 18c. to 19c. per pound. All recent arrivals detained.

Miscellaneous

Balm of Gilead.—Buds were steady in price. Demand irregular. No superabundant supply at source.

Dragon's Blood.—Trade conventional. Prices steady to firm.

Ergot.—Spot sales at $3.85 per pound. Range to $4. Quantities substantial. Foreign sources offer little or nothing. Stocks limited locally. One ton, afloat to spot, seized by a European neutral, claiming keen need for the item. Protest lodged with Department of State by United States owner of goods.

Lycopodium.—Stocks light in most quarters. One seller had fair-sized reserve. Quotations firm. Little competition.

Papain.—Still favorably placed for buyers. No further shading. Values moderately easy.

Roots

Aconite.—Little competition. No weakness abroad.

Dandelion. — Adance extended. Sales, spot, at 42c. to 45c. per pound. Position strong abroad.

Doggrass.—Spot quoted 16c. to 17c. per pound. Sellers show some reserve.

Gentian. — Plentiful supply keeps prices easy and unsettled.

Ipecac. — Primary markets fully firm, good quality material. Spot quotations reveal increased strength. Downward trend under competition ended.

Mandrake. — Unsold stocks firmly held. Reserve believed sufficient until new crop. No surplus. Prices maintained.

Pink.—Sales at an advance to 40c. to 41c. per pound. No general distribution of stocks. Country holdings in firm position.

Spikenard. — More competition. Market down to 21c. to 22c.

Valerian. — Spot up to 45c. to 50c. per pound. Strong and higher abroad. Scarce.

Seeds

Canary. — Prices down. Morocco seed, 3.80c. to 4.10c. per pound; Turkish, 3.80c. to 4.10c.; Argentine, 3½c. to 4c.

Caraway. — Spot shaded. Dutch seed, 13c. to 13½c.; Russian, 12¼c. to 12¾c. Little demand.

Larkspur.—Higher at $1 per pound. scarce.

Mustard.—Stocks prime yellow seed light. California brown seed shaded to 8¾c. to 9¼c. per pound; Roumanian yellow offered lower at 10c. to 10½c. Light trading.

Sunflower.—California large seed up to 7c. to 7½c. per pound. Poultry grade, up to 5c. to 5.30c. Medium, unchanged.

Spices

Cassia. — Sole change a fractional decline to 17c. to 17½c. per pound for No. 1 Batavia.

Clove.—Amboyna spice offered spot at 25c. to 26c. per pound. Madagascar, nominal at 23c. Zanzibar, 17c. to 17½c.

Ginger.—African root up a fraction to 10c. to 10½c. per pound. Medium Jamaica root higher at 9¾c. to 10¼c. Japanese root rises to 8½c. to 9c.

Nutmegs.—The 80's shaded to 22½c. to 23c. Sole change in group.

Pepper.—Black Alleppy shaded to 8c. to 8½c. per pound; Lampong, 4.25c. to 4.40c.; Tellicherry, 8c. to 8½c. Red, Japanese Hontaka chillies, lower again at 20½c. to 21c.. White pepper unchanged.

Trading in black pepper futures on the New York Produce Exchange from January 20 to January 26, inclusive, comprised 74 contracts, a total of 2,486,400 pounds. Following is a price record for the week:—

	Cents per pound—		
	High.	Low.	Close.
February	3.94	3.92	3.93@4.02
March	4.04	3.97	4.00@4.04
May	4.11	4.04	4.08@4.13
July	4.15	4.13	4.15@4.19
September	4.23	4.23	4.20@4.24
December	4.36	4.30	4.32@4.36

Pimento.—Market higher at 16c. to 16½c. per pound. Reflects forward position at source.

Training Chemical Industry Executives

—Continued from page 3

to the development of that personnel that must bear the grave burden of carrying on business—the lifeblood of this nation today—in the face of the destructive political attack. This nation is built on a foundation of industry. While it may have started on an agricultural basis it would never have passed the standards of Mexico, Southeastern Europe, even China, had not industry also developed to exchange its products with agriculture.

No one gives a second thought to disputing that we are foremost in industrial development. No one disputes that we have the highest standard of living in the world, measure it by balance of food, number of watertaps in the house, bathtubs, automobiles, telephones, central heating plants, radios, in fact anything adding to comfort. Yet even these standards vary widely in the different States. They are higher in Connecticut and Massachussets, both industrialized States, than they are in Mississippi or Arkansas. On the average, we know our standards are better than those of China or India. Industry (that means business, corporation, manufacturing) is the great foundation of it all. The better and more efficiently we operate that business, the more it will boost the standard of living of all who care to participate.

We are all professional men here, and accustomed to looking at facts fairly and honestly. If they are not apparent, we will go to all sorts of trouble to dig them out. We know how to use our professional perspective to appraise our data. We all know that there has been a goodly share of business that has been efficiently and effectively managed. There has been some, in fact much too much, that does not have quite so good a record. And there is a smaller third group that has been managed badly or worse. In this treatment management includes conception.

Now, while the law makes the corporation impersonal, we know that its management, that which makes the wheels turn, is a purely personal direction by people like you and me. They represent all grades of intelligence, of education, of experience, of activity. We all recognize capability and its limitations as an individual characteristic, and it will be ever thus.

Now some business units have been set up, be it accidental or intentional, on such a foundation of conservative financing, engineering, adequate production, skillful distribution, that the unit can take considerable manhandling from a casual executive and still survive. Another unit badly conceived and organized could not be saved by Allah himself. You all know of buildings of equal engineering perfection, of essentially equal materials and construction, the one filled and profitable, the other not covering carrying charges. Some omission in consideration, in judgment, is the only material difference, and this usually in the intangibles that must be considered in any project. It shall be our problem here to supply the missing something.

Definition of An Executive

I shall here define an executive rather broadly as anyone who exercises judgment and decision in the determination of methods, selection of means, and establishment of the program of business. He may be a straw-boss, or a chairman of the board with a multitude of assistants. He is in no sense a wholly free agent, for his fields of operations may be circumscribed by legislation, by decree, by charter, by established principles of common law and rights of others, by experience, and by environment. Further, his own personal characteristics should temper his exercise of authority, such as education, training, and physical strength, for example.

Where have our executives come from? Accident will always play some part in the selection, but that is too involved a subject to be dealt with here and is of relatively minor importance today. Family succession is another source; it may be good or bad. Many sons, given proper and adequate training, have carried on very successfully; others, lacking these prerequisites, have been outstanding failures. With a proper background, family succession is an excellent source of material; with a selfish or obstinate purpose, it is a most evil source and one difficult to correct. One of the best indicators of the effectiveness of an executive is how this particular problem is handled.

In past times, the banker and the lawyer classes have taken the lion's share of the upper executive positions. I have no brief for or against either group, for I know excellent individual material in both groups who are entirely capable of successful management, but that has little bearing on our approach to our problem here, which directs its attention to the particular fitness of the group as a whole to serve as the reservoir from which to draw our major executives.

The larger corporations are very complex organizations. They are like intricate machines intended to perform a series of different yet synchronized operations. In the corporation we have many activities of different kinds, financial to provide capital to build and operate; engineering to supply tools; operations to set these tools in motion, to see that they are serviced with the right personnel, and that they make the specified products; sales to distribute the products; accounting and record activities; legal activities to protect property rights; and a host of further subdivisions. Now like our machine, all ultimately head back to the main drive; otherwise synchronism is lost, gears clash, plungers interfere, and the machine is wrecked. It is just so with the corporation, there must be that main drive, irrespective of the number of secondary units taking off. The efficiency of operation of our corporation is measured very largely by the top executive. Without such effective head, we have Soviet management and that never has and never will operate efficiently.

Responsibility Is Shared

Further, we all recognize the division of responsibility in such organization. It must be organized in departments, and again in departments, and still again, each headed by some executive of some degree of authority. But the struggle for power, for recognition, for a place in the light, is always an incentive to overbuilding, to waste, to unbalancing. Each executive above must be familiar with enough of the details of the lower strata to recognize such evils and to balance the units. This carries through to the top of the organization. An executive must have the knowledge and experience to keep his machine in balance and in synchronism; otherwise there is inefficiency and waste.

Let us return to our banker and lawyer groups who not so long ago furnished a large percentage of the top executives. Is there anything special in the training and education of these groups which particularly fits them for management? First, there is a place for each in our corporation. We have financial problems and we have plenty of legal tasks. Both divisions need the executive direction of these specific types. But after all, the usual corporation is a producing and selling unit—steel, automobiles, food products, chemicals. The financial and the legal phases are relatively secondary to the main purpose. Capital funds flow to industry because their utilization in tools for production and in the operations yields a somewhat better return, if properly managed, than if invested in government bonds or deposited in savings banks. The industrial phase, not the banking phase, controls.

Similarly production is the prime purpose of industry, and legal service is required as an auxiliary to see that we hold our rights, collect our bills, and return our just dues to the government. We do not legislate a process out of the laboratory, nor sue it through the operating unit. A court decree will not make a reaction run up hill against a free energy equation. I thus put the very necessary legal division in a class secondary to our main motive.

Now the banker is trained on money and credits. We use both only in the form of tools or materials. Our capital goes for buildings, for equipment, and for working capital. The efficient expenditure for such purposes is of great moment. This spending is outside the immediate ken of the banker. He is usually not familiar with costs, with adequacy of design, with sales and distribution of goods which control working capital needs. He is wholly dependent on someone else's opinion and recommendation with no first-hand ability to appraise. The rivalry of departments may make for gross extravagance and waste. Errors in appraisal based on too narrow vision may be very expensive. Such must be reviewed by competent superiors, even to the top of the organization in the case of major items.

(To Be Continued)

Sherwin-Williams Had 44% Gain in Final Four Months

George A. Martin, president of the Sherwin - Williams Company, paint manufacturers, Cleveland, told the annual convention of its South-Central district salesmen, in the Netherland Plaza hotel, Cincinnati, January 18-19, that business of the company increased 44 percent during the four months from September through December as compared with the corresponding period in 1938.

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We are again favorably placed with respect to this outstanding Fritzsche Specialty and are glad to announce resumption of contract offerings. Makers of regular and processed dills who have relied upon F. B. OIL OF DILL WEED for its economy and superior flavor are urged NOW to arrange their season's requirements.

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Essential Oils, Aromatic Chemicals

Birch Tar Advanced — Cassia Stronger at Higher Levels —Ceylon Citronella Turns Easier and Lower—Citrous Oils Steady Under Routine Demand—Wormseed Strong

Although the market for essential oils was fairly calm last week, trade was reported somewhat improved in volume and showing a wider distribution among consuming industries. Market undertones were generally firm and prices for the most part were well maintained.

The improvement in business appeared to affect almost the whole list of materials. Since most of them were still subject to high replacement costs abroad and delays in transportation the underlying strength of the price structure was clearly apparent. Stocks on the spot were fair in size, though probably smaller than is usually assumed. The most recent report of the Department of Commerce declared that November imports of essential oils were valued at $770,600, compared with a value of $443,200 in November, 1938. Of course, a substantial proportion of the November arrivals had been sold into consumption, oftentimes before shipments were made.

Aromatic chemicals were in steady demand under conditions usually free from excitement. Manufacturing consumers covered needs fairly well in advance and found prices to be generally firm in undertone and tending to maintain a well-stabilized position.

Price Changes

Advanced

Birch tar, crude, 2c. per lb.: rectified, 10c. per lb.
Cassia, 10c. per lb.

Reduced

Citronella, Ceylon, 2c. per lb.

Comparative Values

Index numbers compiled from twenty typical essential oils on the basis of 100 for August 1, 1914, compare as follows:—

Last week.	Prev. week.	Last month.	Last year.
95.1	94.9	92.7	68.7

Market news that may have developed after this report was sent to press will be found on page 4.

Essential Oils

Almond. — Business quiet. Prices firm, spot and primary market. Stocks moderate in all quarters.

Anise.—Spot steady. Demand covering prompt needs readily. Prices well held in absence of substantial competition.

Bergamot.—No extension of advance. Market strong, here and at primary source. New crop offerings maintained at higher price levels. Demand routine on spot.

Birch Tar.—Prices advanced. Crude, 27c. to 28c. per pound; rectified, 85c. to 90c. Rise here reflects strength of replacement market. Fair selling on the rise.

Bois De Rose.—Very firm position reported. Prices free from shading. Little oil offered from primary market. Demand moderate here.

Cajeput. — Routine trading sufficient to hold prices steady. No surplus offering from primary market.

Camphor. — Abrogation of trade pact with Japan may cut down sailings of ships to this country. Market strong. Spot prices nominal.

Cananga .— Firm position reported. Some gain in inquiries give added strength to situation. Current stocks moderate in size.

Capsicum (Oleoresin). — Some easing noted in raw material prices. No change in derived product. Demand conventional but steady.

Cassia. — Market higher. Prices, $1.35 to $1.40. Strong undertone strengthened by good request. Replacement cost up.

Cedarleaf.—Some improvement in request brings moderate rise in sales. Price undertones strengthened. Little local competition.

Citronella.—Ceylon oil lower. Price, drums, 43c. to 44c. per pound; cans, 45c. to 46c. Tendency to shade further noted. Java oil shows low primary cost.

Clove.—Very good request. Sales cover forward requirements liberally. Prices steady to firm. Deliveries still behind contract requirements.

Croton.—Very quiet market. Prices steady. No important competition.

Dill.—Selling steadily at steady prices. Consumer interest normal.

Eucalyptus. — Market strong. Prices tend upward. Limited offerings from source. No signs of early improvement. Demand good.

Lemon.—Firm undertones. California oil moving steadily at attractive prices. Slightly easier position for primary market Italian oil. Demand up to normal Winter volume.

Lemongrass.—Considerable competition tends to keep prices slightly unsettled. No open change last week. Demand quiet.

Lime.—Competition keeps distilled oil rather easy. Expressed material steady to firm. Demand routine but of fair volume.

Mace.—Firm undertones the rule. Sales ahead of producers' ability to ship. Prices fully maintained.

Mustard.—Domestic production providing amply for home needs. Prices steady.

Nutmeg.—Demand good. Backlog of orders fairly large. Production sold well ahead. Prices very firm.

Orange.—California oil firm at late advance. Other domestic oils steady. Messina oil quiet. African in fair supply. Prices unchanged. Demand normal for the season.

Peppermint. — Trade quiet. Market undertones firm. Country prices well maintained. Competition mostly in eclipse. Reserves conservative.

Petitgrain.—Advance strongly maintained. Signs of reaction lacking. Demand steady for moderate quantities. Source strong in undertone.

Sassafras.—Undertones strong. Demand good. Replacements not readily obtained. Shipments from Japan may be delayed by curtailed steamship service following trade pact abrogation.

Spearmint.—Strong market maintained. Demand limited to small lots. Little competition in primary market.

Wormseed.—Advance fully maintained. No sign of pending reversal.

Aromatic Chemicals

Acetophenone.—Price firm. Little competition. Stocks sufficient.

Amyl Phenylacetate. — Demand hand-to-mouth. Prompt needs limited. Prices steady.

Anethol.—Situation changes little. Prices steady. Routine demand.

Benzaldehyde.—Better selling by second-hands. Market generally firm.

Benzophenone. — Trade irregular. Volume light. Prices inert.

Benzyl Acetate.—Consumption running steady. Prices well held.

Benzyl Alcohol.—Jobbing business the rule. Quotations firm.

Benzyl Benzoate.—More inquiry. Sales gain moderately. Undertones steady.

Benzyl Formate. — Sellers' prices firm. Competition negligible. Good demand.

Benzyl Salicylate.—Demand irregular. Mainly jobbing. Prices hold.

Benzylidenacetone. — More interest shown. Sales and inquiries up. Prices steady to firm.

Bromstyrol.—Trade quiet. Routine in character. Little competition.

Carvol.—Moderate demand. Volume maintained. Values steady.

Cinnamic Alcohol.—Buyers covering needs well. Prices steady.

Cinnamic Aldehyde.—Demand less-

Current prices on essential oils and aromatic chemicals are given in the alphabetical list of prices beginning on page 7

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ens. No weakening of prices. Sellers somewhat reserved.

Cinnamic Aldehyde.—Jobbing trade volume maintained. Undertones steady.

Citronellal.—Steady absorption of producers' offerings. Character of demand normal.

Citronellol.—Consumption comparing well with recent takings.

Citronellyl Acetate.—Interest somewhat repressed. Volume still fair. Prices maintained.

Citronellyl Butyrate.—Slightly more competition fails to break open quotations.

Ethyl Vanillin.—Producers' market shows no unsettlement. Recent steadiness of prices unshaken.

Eucalyptol.—Strong raw material prices keeps derived product strong. Demand good. Seasonal in character.

Eugenol.—Producers report no surplus of raw material. Consumer demand very good. Prices firm.

Geraniol.—Trade routine, but steady. Call conventional. Prices hold.

Heliotropine.—Very steady market. Prices established in firm position. Competition lessening.

Menthol.—Primary market price maintained. Replacement, duty paid, higher than spot. Demand routine.

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Mfrs. of Aromatic Chemicals, Natural Derivatives, Perfume Oils, Artificial Flower and Flavor Oils

Oil Import Tax Cut Assailed at Hearing

—Continued from page 5

foreign oil is likely to prove too great for the importers to resist.

Mr. Franklin took issue with earlier witnesses who had indicated to the committee that it was advisable to let down the bars for some grades of petroleum, particularly asphalt oil, because supplies in this country were inadequate. He declared that there are large reserves of asphalt oil in the ground and that in California there are supplies in storage.

There is no possible justification for the reduction of the oil excise tax "except as a favor to Venezuela, or to the oil importers, at our expense," John D. Battle, executive secretary of the National Coal Association, told the committee. He asked annulment of this provision in the Venezuelan agreement and favorable action by this session of Congress on a bill to raise the excise tax on imported oil to 3 cents per gallon.

Phillips Heads Oil Compact

Wichita, Kans., Jan. 22, 1940

Governor Leon C. Phillips was elected chairman of the Interstate Oil Compact Commission today. He succeeds Colonel Ernest O. Thompson, member of the Texas Railroad Commission. Andrew Schoeppel, head of the Kansas Corporation Commisssion, was named vice chairman. The new chairman said that governors of nineteen oil-producing States would appear in Washington next month to fight against enactment of the Cole bill for Federal control of the industry.

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- That is why so many manufacturers have standardized on Penn-Drake White Oils and Petrolatum. They have learned that these pure Pennsylvania products never deteriorate to make their preparations unsalable. Creams stay silky and smooth to the last drop—cosmetics need never become rancid or cloudy—when Penn-Drake White Oils or Petrolatum are used for the base.

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Petroleum Solvents Lubricants, Fuels

White Oils and Petrolatums More Normal But Still Active—Russian Oil Stocks Low—Little Hope for Future Shipments —Kerosene and Fuel Oil Higher

Markets for petrolatums and white mineral oils were more quiet last week and they showed further tendencies to return to normal positions. Both products were still in good demand but the drain on stocks was not as heavy as in past weeks. Meanwhile, Russian oil supplies in the United States were practically depleted and reports from European sources indicated that shipments of the pure oil would probably not be made in large volume until after the war.

Crude paraffin continued to firm and quotations were purely nominal. It was a sellers' market, with the highest obtainable price quoted. Refined grades were also strong, with an unconfirmed report that one refiner had advanced slightly. Solvents and diluents, with the exception of rubber solvent, which moved actively, were not in heavy demand. Kerosene and No. 2 fuel oil both moved into higher price brackets and lubricating oils continued one of the strengths of the general market. Motor fuel offerings were attracting little attention and, although no reductions were made, quotations were easier. Natural gasoline was reduced in Texas and Oklahoma.

Solvents and Diluents

Aromatic Naphthas. — Trade fairly well maintained with all prices firm.

Cleaners' Naphtha. — Shipments at satisfactory level with pick-up looked for next month. Firm at 9c. to 10½c. per gallon, East Coast refineries.

Lacquer Diluent. — Unchanged at 9½c. to 10c. per gallon.

Petroleum Thinners. — Takings of the paint trade small. Sales made at 8¾c. to 9½c. per gallon for 43-47 material, and 10½c. for 47-49.

Rubber Solvent. — Consumption by Akron tire makers continued heavy, and the price was firm at 9½c. per gallon.

Stoddard Solvent.—Call from the cleaning trade was a bit better during the period, with sales made at 8¾c. to 9½c. per gallon.

V.M.& P. Naphtha.—Shipments a bit heavier at price of 6⅞c. to 7c. per gallon.

Markets at Other Centers

Chicago—Jan. 25

Good demand is being recorded for petroleum solvents and diluents. Prices reveal existence of a steady tone, and it is reported that price cutting is not giving more than an ordinary amount of irregularity to the price structure. There is fair interest for paint industry materials. Ruling prices in tankcar lots except as noted are (tankcar prices f.o.b. Group 3 Oklahoma):—Blending naphtha, 4¼c. to 4½c. per pound; cleaners' naphtha, 6⅞c. to 7c., tankcar; 18c., tank wagon; petroleum spirits, 5⅞c. to 6c., tankcar; 16.7c., tank wagon; rubber solvent, 6⅞c. to 7c.; lacquer diluent, 7⅞c. to 8c.; Stoddard solvent, 6⅜c. to 6½c., tankcar; v.m.&p. naphtha, 6⅞c. to 7c., tankcar; 17c., tank wagon.

New Orleans—Jan. 25

Demand for most products was at a slightly better level, with rubber solvent in heaviest call. Prices were unchanged and quoted as follows:—

CLEANING SOLVENT.—Boiling range 225-350, gravity 53, 6¾c., delivered New Orleans in tankcars.

V.M.P. NAPHTHA.—Boiling range 175-425, gravity 48, 6½c., delivered New Orleans in tankcars.

Tulsa—Jan. 25

More inquiries have come into the market for rubber solvents in group 3, and future deliveries are being more freely asked. However, quotations are unchanged in this grade, as well as in all other solvents and diluents, which are being quoted at the prices prevailing since the first of the year.

Price Changes

Advanced

Kerosene, ¼c. to ½c. per gal., N. Y. harbor

Oil, fuel, No. 2, ¼c. to ½c. per gal., N. Y. harbor

20-24 pour, 2½c. per bbl., basis Illinois

Reduced

Gasoline, natural, Okla. refineries, ¼c. per gal.

Texas refineries, ¼c. to ⅜c. per gal.

Market news that may have developed after this report was sent to press will be found on page 4.

Lighter Fractions

Butane.—Strong and in heavy demand at 2½c. to 3c. per gallon, basis group 3.

Heptane.—Firm at 11c. per gallon for car lots in drums.

Hexane.—Interest slack, but price firm at 12½c. per gallon for car lots of normal grade, and 14c. for laboratory.

Pentanes.—Car lots offered at 11½c. per gallon with few takers.

Propane.—Very strong at 3¾c. to 4c. per gallon in view of a heavy demand.

Petrolatums and Waxes

White Mineral Oils.—The market was a bit more quiet during the week, and although prices were unchanged, they held their previously firm levels. No prices were available on Russian oil.

Petrolatum. — Interest slackened somewhat, but deliveries during the week were still at a good level. Prices continued firm and unchanged.

Paraffin.—Crude scale prices were strictly nominal, and refined grades were strong and unchanged. Demand continued heavy.

Chicago—Jan. 25

Although it is reported the buying pressure for refined petroleum wax has relaxed a little, prices are reported still holding quite strong for the most part and considerable interest continues to be shown in buying. Ruling prices are:—122-124, 6.10c. to 6.15c. per pound; 125-127, 6.10c. to 6.15c.; 127-129, 6.35c. to 6.4c.; 130-132, 6.65c. to 6.7c.; 132-134, 6.9c. to 6.95c.

Tulsa—Jan. 25

Quotations on paraffin remain strong, with the 124-26 American crude being quoted at 6⅞c. to 7c. per pound.

Fuels and Lubricants

Gasoline. — The market remained easy with trading dull at New York harbor.

Kerosene.—Prices were advanced ¼c. to ½c., with offerings made in the New York area at 6c. to 6¼c. per gallon. Demand was at good levels.

Fuel and Gas Oils.—Fuel oil in bulk was advanced ¼c. to ½c. per gallon by leading companies. The tankcar price of No. 2 oil was quoted at 5.5c. to 6c. per gallon. Bunker fuel oil continued firm at $1.50 per barrel. Demand was heavy.

Lubricating Oils. — Pennsylvania bright stocks were very strong, but no official advances were made. Both domestic and export demand was heavy.

Markets at Other Centers

Chicago—Jan. 25

Continued strength in burning oils has contrasted with persistent weakness in gasoline in the refinery petroleum market here. Orders for various grades of the domestic heating products have been running at highest known levels for several weeks throughout a large section of the Midwest. Stocks are dwindling steadily. However, gasoline is in a definitely weak phase, with prices down to lowest levels in nearly a year.

GASOLINE.—Low octane motor, 3¾c. to 4¼c. per gallon; 63-66 octane motor, 4c. to 4½c.; 67-69 octane motor, 4¼c. to 4¾c.; 70-72 octane motor, 4½c. to 5c.; 60-62, 400 endpoint, 3¾c. to 4¼c.; 64-66, 375, 4c. to 4½c.; 68-70, 360, 4½c. to 5c.

KEROSENE.—42-44, water white, 3⅞c. to 4c. per gallon; 41-43, water white, 3¾c. to 3⅞c.

FURNACE OILS.—Range oil, 3¾c. to 3⅞c. per gallon; No. 1 white, 3¾c. to

Petroleum Production—Motor Fuel Stocks

	Barrels	
	1940 Jan. 1-Jan. 27	1939 Jan. 1-Jan. 27
Commercial crude oil production	95,742,550	96,466,100
	Week ended Jan. 27, 1940	Week ended Jan. 28, 1939
Daily average production	3,628,017	3,255,900
	Week ended Jan. 20, 1940	Week ended Jan. 13, 1940
Estimated motor fuel stocks	85,880,000	84,326,000
Estimated finished motor fuel stocks	80,181,000	78,437,000

The State of the Petroleum Market

No changes were made in the posted prices for crude oil or in tankcar gasoline quotations.

	Jan. 26	Jan. 19	Last Year
Crude petroleum prices at well (average for ten fields) per barrel	$1.2095	$1.2095	$1.105
Gasoline prices at refineries (at four refining centers) per gallon	.0510770	.0510770	.0478125

Current prices on petroleum and its products are given in the alphabetical list of prices beginning on page 7

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Outputs and Quotas

A comparison of Bureau of Mines calculations for January productions, State allowable quotas where they exist and the American Petroleum Institute's estimate for crude production for the week ended January 20 follows:—

	*B. of M. Dept. of Int. calculations.	State allowable.	Estimated output.
Oklahoma..	433,900	433,900	†419,900
Kansas....	160,600	160,600	†176,650
Nebraska...	....	....	† 100
Texas	1,411,000	‡1,376,320	1,357,650
Louisiana..	254,200	268,192	270,750
Arkansas ..	59,700	70,000	70,700
Mississippi..	....	....	†3,200
Illinois ...	314,800	....	366,700
Eastern ..	100,700	....	103,400
Michigan...	61,000	....	64,600
Wyoming...	58,700	....	62,050
Montana...	15,400	....	17,450
Colorado...	3,900	....	4,100
N. Mexico.	101,900	101,900	100,000
California..	593,900	§599,000	620,200
Totals ..	3,569,700	....	3,637,450

* These are Bureau of Mines' calcuations of the requirements of domestic crude oil based upon certain premises outlined in its detailed forecast for the month of January. As requirements may be supplied either from stocks, or from new productions contemplated withdrawals from crude oil inventories must be deducted from the Bureau's estimated requirements to determine the amount of new crude to be produced.

† Okla., Kans., Miss., Neb. figures are for week ended 7 a.m. January 17.

‡ This is the net basic allowable as of January 1 and reflects ordered shutdowns for 13 days, namely, January 3, 6, 7, 10, 13, 14, 17, 20, 21, 24, 27, 28 and 31. Experience indicates that due to allowables granted above net scheduled exemptions and also because of new wells completed, the basic net allowable as of the first of the month is always subject to upward revision.

§ Recommendation of Central Committee of California Oil Producers.

3⅞c.; No. 1 straw, 3⅝c. to 3¾c.; No. 2 straw, 3½c. to 3⅝c.; No. 2 dark, 3⅜c. to 3½c.; No. 3, 3¼c. to 3⅜c.; 32-36, dark, industrial gas oil, 2⅝c. to 2⅞c.

New Orleans—Jan. 25

Domestic market prices remained unchanged during the past week, with the following being quoted:—U. S. motor gasoline, 5¾c.; 63-67 octane, 5¾c., and 70-72, 6¼c., all prices being based on a per-gallon rate at refinery.

Kerosene continued to be quoted at 7¼c. per gallon at refinery.

Bunker C fuel oil was quoted at 90c. per barrel at terminal, and 95c. per barrel delivered alongside, while industrial plants in this vicinity continued to be quoted on this grade at $1.36 per barrel, delivered alongside.

Tulsa—Jan. 25

Continuance of the lowest temperatures for the past several years throughout the Middle West has made the seasonal trends more pronounced this week. Consumption of gasoline has suffered tremendously. This has resulted in it being offered freely, with some buyers reporting quotations below 3c. for the lowest octane grades. There have been general advances of ¼c. in heating oils, both at the tankcar and retail markets. Kerosene has also become firmer this week as a result of the rise in distillates and heating oils. Advances in heating oils have also affected industrial fuels in Southern Illinois, where the 20 to 24-degree grade has risen to 85c. per barrel.

GASOLINE.—Although lowest octane grade is unchanged at 3c. to 4c. per gallon, some concessions are being offered. The 63-66 octane is 3¼c. to 4¼c.; 67-69, 3½c. to 4⅜c., and high octanes above 70 and ranging to 80, 3⅞c. to 4¾c. The higher gravities are unchanged, with 64-66 and 375 e. p. at 4c. to 4¼c. per gallon, and 68-70 gravity at 4⅝c. to 4⅞c.

NATURAL GASOLINES.—Soft, with 26-70 grade at 2c. per gallon in Texas, and the 18-55 at 2⅜c. to 2½c. In Oklahoma, the 26-70 grade is 2¼c. per gallon, and 18-55, 2⅝c. to 2¾c.

DISTILLATES.—Scarce, with No. 1 prime white quoted at 3¾c. to 3⅞c. per gallon for prompt shipment, and 3⅝c. to 3⅞c. for delayed delivery. No. 2 is 3½c. to 3⅝c. per gallon, and the dark is 3¼c. to 3½c. Zero gas oils are 3c. to 3¼c., and the regular grade is 2¾c. to 3c.

KEROSENE.—The 41-43 grade is 3⅝c. to 4¼c. per gallon, and 42-44 is 3¾c. to 4⅜c.

FUEL OILS.—Residuals still quoted at 50c. to 70c. per barrel, and 18-22 at 70c. to 80c. In Illinois the 20-24-degree gravity high pour is 85c. per barrel, up 2½c. In group 3 the 22-28 is 80c. to 95c.

LUBRICANTS.—The demand for these products is incessant, with refiners well sold up and no offerings being made on the spot market. Quotations remain at 24c. to 28c. per gallon for bright stocks, and 13c. to 18½c. for neutrals.

Don M. Cameron has been appointed district salesmanager for the Union Oil Company, Los Angeles. He succeeds H. F. Armour, who has been appointed special division representative.

Penna. Refining Opens Jersey City Plant

The Pennsylvania Refining Company, Butler, Pa., has opened a branch plant in Jersey City, N. J., and has appointed L. L. Long as manager of the Atlantic division.

Located at No. 1 Gates avenue, the new unit is conveniently situated for daily truck service throughout the metropolitan New York area, which includes the Northern half of New Jersey. In its bulk storage department, the plant will handle the complete Pennsylvania Refining Company line of branded and nonbranded lubricating oils, greases, dry cleaning and special naphthas, petrolatum, medicinal and technical White Oils, and "Insecti-sol," base for insecticides, rubber solvents. Storage tanks and modern machinery for blending and packaging these products have been installed in the plant. The petroleum products will be brought to the new plant from the company's refineries located in the heart of the Pennsylvania oil fields at Karns City and Titusville, Pa.

L. L. Long

With the opening of the New Jersey plant, the Pennsylvania Refining Company adds another link to its chain of branches, which includes units in Cleveland, Ohio; Scranton, Pa.; Atlanta, Ga., as well as warehouse stocks in New York, Chicago, Detroit, Los Angeles, St. Louis, Boston, and Petersburg, Va.

As manager of the Atlantic division of the Pennsylvania Refining Company, Mr. Long will be in charge of the Jersey City plant. For more than twenty years, Mr. Long has been associated in a sales capacity with the Pennsylvania oil industry.

Huber Purification Plant To Be Erected by Koppers

The engineering and construction division of the Koppers Company, Pittsburgh, has been awarded a contract for a Seaboard process type of liquid purification plant at Borger, Tex., for The J. M. Huber Corporation, manufacturer of gasoline and carbon black.

The plant will be employed to remove hydrogen sulfide from natural gas which is to be used in the manufacture of carbon black. The plant will have a daily capacity of 70,000,000 cubic feet of gas. Erection of the plant is expected to start about March 15. It will be ready to begin operation about May 15.

Seaboard process type of purification plant is a continuous absorption and actification process in which the gas is scrubbed in an absorber tower with a solution of sodium carbonate. The solution, after leaving the absorber, goes to a second similar tower, an actifier, where it is aerated by a stream of air forced in by a blower. In this tower the solution gives up its hydrogen sulfide and becomes ready for use again in the absorber.

Crude Oil Daily Output Up

Daily average gross crude oil production in the United States during the week ended January 20 was 3,637,450 barrels, an increase of 45,250 over the 3,592,200 in the previous week, according to the American Petroleum Institute. An increase of 29,300 in the daily average output of Illinois was the most important change. Stocks of finished and unfinished gasoline in the United States at the close of the week were 85,800,000 barrels, an increase of 1,554,000 over the 84,326,000 a week earlier. A year ago these stocks amounted to 76,452,000 barrels. Finished gasoline stocks increased 1,744,000 barrels to 80,181,000, compared with 70,790,000 on Jan. 20, 1939. Stocks of gas oil, distillates and residual fuel oil at refineries, in pipe lines and in transit were 133,470,000 barrels, against 135,038,000 at the end of the previous week and 150,804,000 on Jan. 20, 1939.

Chemical Workers Show Decrease

—*Continued from page 3*

Detailed Comparisons

Employment

(100=1923-25 average)

	Dec. 1939.	Nov. 1939.	Dec. 1938.
Chemicals	137.2	137.5	119.0
Cottonseed oil, cake and meal	116.9	121.1	131.0
Druggists' preparations	118.8	117.7	110.5
Explosives	108.1	106.1	86.3
Fertilizers	101.8	91.5	92.3
Paint and varnishes	124.4	125.1	117.1
Petroleum, refined	122.2	123.7	119.2
Rayon and allied products	312.2	313.4	298.4
Soap	84.9	88.6	78.9

Payroll Totals

(100=1923-25 average)

	Dec. 1939.	Nov. 1939.	Dec. 1938.
Chemicals	161.4	161.2	132.2
Cottonseed oil, cake and meal	109.1	113.3	105.9
Druggists' preparations	132.2	131.1	119.9
Explosives	128.8	127.6	99.7
Fertilizers	81.8	75.9	70.3
Paint and varnishes	130.0	131.5	117.6
Petroleum	137.4	137.9	134.2
Rayon and allied products	314.0	310.4	276.8
Soap	102.3	104.4	93.3

Data compiled by the Bureau of Labor Statistics for basic non-manufacturing industries related to the chemical industries afforded the following comparisons on the basis of the 1923-25 average:—

	Employment. Dec.	Nov.	Payroll totals. Dec.	Nov.
Metalliferrous mining	67.6	66.5	66.5	64.1
Quarrying and nonmetallic mining	44.1	47.0	39.2	42.9
Crude petroleum producing	63.5	63.6	59.1	59.4
Dyeing and cleaning	96.0	99.1	68.7	71.8

Employment in New York

Employment in factories producing chemicals and related products in New York State dropped 0.7 percent from November 15 to December 15, but gained 1.9 percent in the city, according to the records of the State Department of Labor.

General factory employment remained unchanged from November 15 to December 15, but payrolls increased 1.7 percent during the same period. The department's index of employment for December 15 was 91.4 percent. The payroll index was 89.3 percent. These indexes are based on the average years 1925-27 as 100.

	Percentages. State.	City.
Drugs and industrial chemicals	—0.9	+0.5
Oil products	—2.4	—4.1
Paints and colors	+0.4	+0.6
Photographic and miscellaneous chemicals	—0.2	—2.9

U.S. Revenue Returns Show Decrease in Dec.

Collections of excise taxes by the Bureau of Internal Revenue, Washington, for December, 1939, compared with December, 1938, as follows:—

Taxes Collected

	December 1939.	1938.
Coconut, etc., oils, proccessed	$1,833,624.80	$2,353,895.37
Distilled spirits, domestic, exice tax $2.25 per gallon	25,179,845.71	25,978,200.63
Distilled spirits, imported, excise tax $2.25 per gallon	2,984,595.02	3,546,174.57
Gasoline	17,000,709.11	16,936,817.83
Lubricatig oils	2,306,045.95	2,109,251.55
Matches	6.86	7,611.27
Narcotics, including special taxes	33,090.44	15,032.06
Oleomargarin, special taxes	17,514.64	18,985.49
Oeomargarin, special taxes	17,514.65	18,985.49
Toilet preparations	705,458.99	1,022,944.12
Transportation of oil by pipeline	769,063.80	939,764.85
Total internal revenue	$498,993,133.73	$662,252,430.14

Quantities Taxed

	December 1939.	1938.
Distilled spirits, domestic tax gallons	11,432,118	11,773,086
Distilled spirits, imported, tax gallons	1,454,935	1,728,888
Distilled spirits, rectified, proof gallons	3,689,563	4,288,968
Oleomargarin, colored, pounds	29,858	29,524
Oleomargarin, uncolored	22,959,816	31,411,408

N.Y. Tung Oil Arrivals

The arrival was reported at New York last week of 1,190 tons of chinawood oil from Hongkong.

C. P. Gulick, chairman of the board of the National Oil Products Company, Harrison, N. J., has been appointed vice-chairman of the industrial practices committee of the National Association of Manufacturers.

Foreign Trade Openings

Correspondence in regard to any of the following trade openings should be addressed to the Bureau of Foreign and Domestic Commerce, Washington, D. C., or to any district office or cooperative office of the bureau, and not to this publication. When writing give the number of the item:—

Acetic Acid:—Singapore, Str. Settlements; agency (6027).

Acetone:—Copenhagen, Denmark; agency (6033).

Bleaching Powders:—Dublin, Ireland; agency (5925).

Castor Oil:—Copenhagen, Denmark; agency (6033).

Chemicals: — Copenhagen, Denmark; agency (6033).

Chemicals:—Mexico City, Mexico; agency (6023).

Chemicals: — Norrkoping, Sweden; agency (5992).

Cosmetics: — Copenhagen, Denmark; purchase (5936).

Drugs, Crude:—Buenos Aires, Argentina; purchase (5934).

Dyes, Textile:—Cairo, Egypt; purchase and agency (6026).

Dyestuffs: — Mexico City, Mexico; agency (6023).

Formic Acid:—Singapore, Str. Settlements; purchase (5924).

Formic Acid:—Singapore, Str. Settlements; agency (6027).

Pharmaceuticals: — Singapore, Straits Settlements: — purchase and agency (5567).

Pharmaceuticals:—Cairo, Egypt; purchase and agency (5829).

Pharmaceuticals: — Colombo, Ceylon; agency (5846).

Pyroxlyin Plastics:—Oporto, Portugal; purchase (5552.)

Resins: — Batavia, Java; purchase (5647).

Rosin:—Reykjavik, Iceland; purchase (5600).

Soap:—Curacao, Netherland, W. I.; purchase (5252).

Soap:—Cairo, Egypt; agency (5245).

Soap:—Guayaquil, Ecuador; agency (5368).

Soap:—Dublin, Eire; agency (5467).

Soda Bicarbonate: — Cairo, Egypt; agency (5560).

Soda Bicarbonate:—Singapore, Straits Settlements; purchase and agency (5405).

Soda Bicarbonate: — Galway, Ireland; purchase (5290).

Soda, Caustic:—Padang, Sumatra; purchase (5837).

Soda, Caustic:—Nairobi, Kenya; agency (5826).

Soda, Caustic:—Valletta, Malta; purchase (5836).

Soda Cyanide:—Cairo, Egypt; purchase (5532).

Soda Fluoride:—Dublin, Eire; purchase (5396).

Soda Sulphide:—Bangkok, Thailand; purchase (5553).

Sulphur, Cakes:—Bombay, India; purchase (5832).

Superphosphates: — Capetown, South Africa; agency (5567).

Thorium Nitrate:—Alexandria, Egypt; purchase and agency (5529).

Toilet Preparations:—Cairo, Egypt; agency (5897).

Toilet Preparations:—Cairo, Egypt; agency (5828).

Toilet Preparations:—Bombay, India; agency (5833).

Toilet Preparations:—Singapore, Straits Settlements; purchase and agency (5510).

Toilet Preparations:—Zurich, Switzerland; purchase (5543).

N.Y. Paint Association Adds to Membership

The January meeting of the New York Paint, Varnish and Lacquer Association was held in the Biltmore hotel, this city, January 25. More than 200 members were present. Devoe & Raynolds, Inc., represented by W. H. Mathews, vice-president, was accepted as a class A member of the association. Other members accepted were U. S. Industrial Alcohol Company, represented by H. W. Haines and W. J. Fried, class B; Arnhold & Company, represented by E. Luders, class C; and Continental Can Company and Soconoy Paint Products Company, both class D.

Paint Course to Be Started By Case School Feb. 6

Case Scientific School, Cleveland, is starting an evening course in paint and varnish technology beginning February 6, 1940. The complete course comprises thirty lectures and the tuition is $37.50; members of the Cleveland Paint, Varnish and Lacquer Association may subscribe to any group of four lectures at $5 per group. Registration may be made at once through the chemical engineering department at Case and between January 22 and February 3 through the evening division.

Fertilizer Materials

Heavy Snows and Cold Weather Retard Market in South —Imported Bone Sole Advance—Blood and Tankage Down—Japanese Trade Treaty Expires

Forward movements in the general raw fertilizer materials market, slight indications of which are expected at this time of year, were brought to an abrupt halt last week by severe snowstorms in many sections of the South. The blizzard struck most sharply in the Southern Atlantic States and it also extended as far West and South as Mississippi. With the ground frozen and, in many cases, covered with snow, it was doubted that mixers will be inclined to show an interest in raw materials for some weeks.

With the possible exception of certain sections of the Midwest, trading was at a low level last week. Bone materials continued to be in good demand and the imported steamed product was advanced. Other price revisions, however, were reductions, and they included domestic blood, hoofmeal, nitrogenous material and domestic and imported tankage. Sulphate of ammonia and nitrate of soda were moving normally.

Another blow to producers was the recent announcement that Great Britain will sharply curtail purchases of Virginia tobacco and import greater quantities of the Turkish material. With the British market gone, it is doubted that tobacco planters will spend as much money on fertilizers as heretofore. As the tobacco crop has always taken a very highgrade fertilizer, the loss to producers will be a substantial one. What effect the expiration of the trade treaty with Japan will have on the general fertilizer market was not seen as yet last week. For the time being commercial relations with Japan are on the same basis as during the life of the treaty.

Nitrogenates

Castor Pomace.—Firm at $17.50 for car lots of the domestic material and $20 for the imported.

Dried Blood.—Sales made in New York at $3.40 per unit, a 5c. reduction. Other markets unchanged.

Fish Scrap.—Japanese sardine meal firm at $51 per ton for February shipment. Demand fair.

Manganese Sulphate.—Firm at $52 per ton for car lots and $59 to $62.75 for less than car lots.

Nitrate of Soda. — Shipments of Chilean material slightly larger. Firm at $27 per ton for car lots.

Nitrogenous Material. — Imported material reduced 5c. per unit to $2.60, c.i.f. ports. Domestic markets quiet and unchanged.

Sulphate of Ammonia.—Conditions surrounding the market were unchanged with the price firm at $28 per ton.

Tankage.—Unground feeding material was reduced 10c. per unit in New York to $3.40 and 10c. The imported product was reduced a similar amount to $3.50 and 10c.

Potashes

Cottonseed Hull Ash.—Demand light with price steady at $1.10 per unit.

Kainit.—Firm at $12.25 per ton in bulk with demand fair.

Manure Salts.—Domestic, 58½c. per unit and imported, $17.55. Demand light and shipments small.

Muriate.—Deliveries were for small lots only, with the price firm at 53½c. per unit for domestic and $26.75 per ton for imported.

Sulphate.—Imported, firm at $36.25 per ton in bags.

Phosphates

Bone Materials.—Imported one and 65-70 percent material advanced 50c. per ton to $34.50. Other prices unchanged with demand light.

Phosphate Rock.—Sales volume light during week and shipments small. Prices firm.

Superphosphate.—Quiet, with prices steady at $8.50 per ton for run-of-pile material and $9 for 16 percent guaranteed.

Sulphur and Pyrites

Agricultural sulphur was still moving slowly last week but there was a bit more inquiry in evidence. The Spanish pyrites market was nominal and the Canadian material was in light demand.

Price Changes

Advanced

Bone, steamed, 1¼ and 60 percent, imp., 50c. per ton.

Reduced

Blood, dried, dom., 5c. per unit, f.o.b. N.Y.
Hoofmeal, 25c. per unit, f.o.b. Chi.
Nitrogenous material, imp., 5c. per unit, c.i.f. ports.
Tankage, unground feeding, 10c. per unit, N.Y.
South Am., 10c. per unit, c.i.f. ports.

Comparative Values

Index numbers compiled from four typical fertilizer materials on the basis of 100 for August 1, 1914, compare as follows:—

Last week.	Prev. week.	Last month.	Last year.
67.0	67.0	67.0	66.3

Market news that may have developed after this report was sent to press will be found on page 4.

Markets at Other Centers

Atlanta—Jan. 24

Extremely cold, snowy and icy weather has slackened interest in fertilizers in the Southeast. Prices show little change. Quotations of leading ingredients are as follows:—

SUPERPHOSPHATES. — 52 cents per unit, interior producing points.

NITRATE OF SODA.—$27 per ton, port basis.

SULPHATE OF AMMONIA.—$28 per ton, port basis.

COTTONSEED MEAL.—8 percent grade, $32 per ton, Southeastern mills.

NITROGENOUS.—$2 per unit, Midwest producing points; foreign, $2.60, c.i.f.

BLOOD.—$3.65 per unit, Chicago; foreign, $3.40, c.i.f.

TANKAGE.—South American, $3.60, c.i.f., Southern ports.

BONE.—Ground steam bone, 3 and 50, at $32 per ton, basis Chicago.

Baltimore—Jan. 24

Conditions in the market for crude fertilizer materials continue to reflect quiet, with trading retarded or held in abeyance altogether. Maryland has been showered with one of the heaviest snowfalls of years, and for the time being there can be no thought of engaging in accumulations of fertilizer mixtures. The prevailing quotations are as follows:—

FISH SCRAP.—Menhaden meal is held at $59 per ton, with Japanese sardine meal $51, c.i.f., for spot and contract.

TANKAGE.—The market for this ammoniate is quiet and easy, with 10 percent material sold last week at $3.40 and 10c. per unit-ton.

DRIED BLOOD.—Domestic supplies are quoted at $3.40 per unit-ton, f.o.b., but there is little buying at that level. The demand for South American stocks is slow, with the price mentioned at $3.40 per unit-ton.

BONE.—The feature of the market for this ammoniate is the high price of imported 1 and 60 bone flour, which has advanced another 50c. to $34.50 per ton. Domestic 3 and 50 ground steamed stocks are at $32 per ton.

Chicago—Jan. 24

A fairly steady market is reported in most grades of fertilizer materials here. Blood has been ruling little changed on a fair scale of business. Tankage business is of a moderate nature, with inquiries for various grades of materials fairly good. Bone materials are ruling about unchanged on the whole, with movement mostly in limited lots, orders being for early shipment.

BLOOD.—Principal grade, $3.65 per unit.

TANKAGE.—High grade, feeding, $3.75; hoof meal, $2.75 to $3; liquid stick, $2.50 to $2.60.

BONE MATERIALS.—Ground, steamed bone, 1¼ and 60 percent, $29 to $30; 3 and 50 percent, $32; 4½ and 50 percent, $32 to $33; grinding hoofs, pigs' toes and waste horn materials, $40 to $45; cattle jaws, skulls and knuckles, $34 to $35; pork cracklings, soft pressed, $50 to $55; beef cracklings, soft pressed, $40 to $45; hard pressed cracklings, per unit of protein, 77½c. to 82½c.

San Francisco—Jan. 24

Trade is dull. Moderate resale activity is noted in animal products and sulphate of ammonia. No further first-hand offerings of the latter have been put out. Fish meal was quiet last week, but was fairly steady under the influence of a fairly light production. Ruling prices are:—

SULPHATE OF AMMONIA.—Sellers have withdrawn from the market.

SUPERPHOSPHATE. — Domestic, 75c. per unit in bulk, f.o.b. San Francisco Bay. Bags, 85c. per unit. Foreign material nominal.

NITRATE OF SODA.—100-pound bags, $29 per ton, ex vessel or warehouse; 200-pound bags, $28.30 per ton, ex vessel or warehouse.

FISH MEAL.—Steady. California sardine meal is $53.50 to $54.50 per ton, f.o.b. San Francisco Bay, and $52.50, Monterey.

TANKAGE. — Unground, fertilizer grade, wet rendered, domestic, $3.35 and 10c. per unit-ton, nominally, f.o.b. cars, northern California. Dry rendered, ground, $47.50 per ton, f.o.b. cars, South San Francisco; unground, dry rendered, 75c. per unit of protein, f.o.b. cars, South San Francisco.

BLOOD MEAL.—Nominal. Quoted on the basis of $3.10 per unit, f.o.b. cars, Los Angeles.

TVA to Spend $6,500,000 on Fertilizers

—Continued from page 3

ing a completely balanced plant as soon as it can be provided. Until such a plant is completed, the authority will be dependent on other sources for the bulk of its phosphate rock supply, and it declares it is becoming increasingly difficult to secure these raw materials from other sources.

The estimated expenditures for the agglomerating and washing plant will provide during the next two years washing facilities, possibly supplemented by a flotation unit, and nodulizing and sintering apparatus. The estimate is based on preliminary studies which show that an expenditure of about $1,149,000 will be required to provide facilities of the size and capacity needed to meet the raw materials requirements of the manufacturing program. The washing plant, without a flotation unit, is estimated to cost $919,000, and the nodulizing and sintering apparatus will cost $230,000.

Reserve to Be Increased

TVA has already spent $1,288,000 in phosphate reserves and rights, and now holds an estimated 19,100,000 net tons of matrix in three counties in Tennessee. It contemplates spending an additional $24,000 to acquire certain small properties needed to round out its present holdings in middle Tennessee. This reserve was acquired with a view of providing the government with an adequate tonnage of phosphate matrix in the face of a fast-dwindling high-grade reserve in that area, for the protection of agriculture and the government's investment in manufacturing facilities located at Muscle Shoals.

It is estimated that when the authority is producing phosphatic fertilizer at capacity from the four electric furnaces and from the projected blast furnace the requirements for phosphate matrix will be close to 400,000 tons annually. It is explained that, while consumption at this rate would not deplete the reserves for almost fifty years, the output of equivalent fertilizer on this basis amounts to only about 9 percent of total United States consumption.

The fertilizer income and expense account calls for a net expenditure in 1941 of $2,693,000 after subtracting expected revenues of $2,750,000 from the AAA from the cost figure of $3,659,000 for fertilizer to be shipped during that year. In addition to this net loss of $909,000 in manufacturing operations, the budget for experimental large-scale production and tests is $1,574,000, other items in this figure being $472,000 for farm tests and demonstrations, $85,000 for controlled soil and fertilizer investigations, $7,000 for transportation studies relating to fertilizer distribution, and $101,000 for a soil inventory. Other items in the income and expense account are $632,000 for research and small-scale production tests and $487,000 for departmental and general administration expense.

New Material Developed

A great deal of detailed financial information regarding its fertilizer program was submitted by TVA to the house appropriations committee in answer to questions, but the committee interposed no objections to the way in which the program is being

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conducted. A statement discussing appropriations for research and development included the following:—

A newly developed fertilizer is defluorinated rock phopshate, containing 25 to 30 percent available plantfood. Its process of manufacture, which is simple and should be economical, has been under development for the past three years. A full-scale plant is now in the experimental stage of operation. Limited quantities of the product are being produced for testing by experiment stations.

A number of new processes for the manufacture of phosphate fertilizers are at present in the laboratory stage of development. Some of these may prove very important, but much research work will be necessary before they can be thoroughly understood and evaluated. These studies include investigations of new methods of manufacturing superphosphate and dicalcium phosphate; a study of fused compounds of calcium phosphate and silica; new concentrated fertilizer products; alternate phosphate defluorination methods; utilization of low-grade phosphate; and methods of analyzing and testing new products.

In answer to questions by committee members, Dr. A. M. Miller, director of chemical engineering for TVA, stated that the authority produced 45,759 tons of concentrated superphosphate in the fiscal year 1938, 68,926 tons in 1939, and in 1941 expects to produce approximately 54,000 tons of available plantfood (phosphoric pentoxide), of which about 40,000 tons will be sold to the AAA and the remaining 14,000 tons will be used in the test and demonstration programs. Questioned about costs, Dr. Miller told the committee:—

For concentrated superphosphate which will be delivered to AAA beginning January 1, 1940, "Triple A" will pay us 66 cents a unit of available phosphoric pentoxide in cotton bags on cars ready for shipment, and according to our estimates for 1941 that material will be supplied at a price above our costs; just how much we cannot tell at the moment, because of the rather rapid change in price of raw materials, due to the increase in business activity and perhaps the unrest in Europe.

He added that the TVA is receiving from AAA a price sufficient to pay for all costs, including construction, personnel, delivery, and everything else, and that there is no loss as far as the government is concerned.

Mineral Developments

Another item in the TVA budget for 1941 is $70,000 for the development of mineral resources in the Tennessee Valley. This activity embraces a study of the coal industry which is nearing completion, and also includes surveys, investigations, and experiments relative to the occurrence, accessibility, beneficiation, and utilization of various minerals, such as clay, silica, mica, talc, and olivine. It includes a general survey of market conditions which would disclose possibilities for processing of minerals by local industries, and a survey of raw materials accessible to river transportation.

Another project under this appropriation is concerned with the development of an economical process for producing alumina from low-grade aluminum ores, such as clays, of the region located within reach of Tennessee Valley Authority power and contiguous to rail and river transportation. Construction of an alumina pilot plant was started in June, 1939, and will be completed in the fiscal year 1940, and the plant will be operated as an experimental unit during the next two years.

Research work on recovery of manganese from low-grade ores, magnesium from dolomite, and on the basic chemistry of the phosphorus halogen compounds is also being conducted.

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25 bgs, B H Old & Co, Macassar
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193 bgs, General Food Corp, Kingston
1,250 bgs, I L Toledano Corp, Cristobal
COLOMBITE ORE—15 cs, Brazil
CONCENTRATES—375 bgs, American Metal Co, Barranquilla
COPAIBA BALSAM—30 cs, Dodge & Olcott Co, Cristobal
COPPER MUD—170 cks, American Metal Co, Marseilles
WASTE—223 cks, Watson, Geach & Co, Marseilles
CORK—15 bls, Bisbe Cork Co, Lisbon
72 bls, Mundet Cork Co, Lisbon
10 bls, A H Bull, Lisbon
DISCS—77 bgs, Lisbon
SLABS—1,530 bls, 200 cs, Lisbon
WASTE—1,108 bls, Armstrong Cork Co, Bona
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CUTTLEFISH BONES—29 cs, Hinton & Co, Venice
DERRIS ROOT — 35 bls, Marine Midland Trust Co, Singapore
160 bls, W J Byrnes & Co, Batavia
340 cs, Joosten & Janssen, Semarang
DILLSEED—68 bgs, Bombay
DYES, ANILIN—173 cks, Geigy Co, Swiss
EGG YOLK, HEN — 50 cs, Mitsui & Co, Tsingtao
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306 cs, American Dyewood Co, Belawan Deli
GELATIN — 80 pkgs, International Selling Corp, Antwerp
GENTIAN ROOT—54 bls, Corn Exchange Bank Trust Co, Marseilles
55 bls, Kachurin Drug Co, Marseilles
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GLUE, BONE—1 bg, International Selling Corp, Antwerp
SHEET—100 pkgs, Transatlantic By-Product Corp, Trieste
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CHICLE—155 bls, M D Bromberg, Tampico
4,415 bls, Mexican Exploitation Co, Vera Cruz
794 bls, Chicle Development Co, Puerto Barrios
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50 bls, Transatlantic Malt Co, Trieste
448 bls, Amtorg Trading Corp, Murmansk
HOREHOUND LEAVES—22 bls, Marine Midland Trust Co, Marseilles
71 bls, Corn Exchange Bank Trust Co, Marseilles
60 bls, Kachurin Drug Co, Marseilles
IPECAC ROOT—29 bgs, C E Griffin & Co, Kingston
10 bls, Oscar Henrichs, Brazil
JALAP ROOT—13 bgs, Vera Cruz
JUNIPER BERRIES—100 bgs, Knickerbocker Mills Co, Leghorn
92 bgs, Peek & Velsor, Leghorn
KAMALA, POWD—200 bgs, Bombay
KOLA NUTS—50 bgs, D Steengrafe, Kingston
12 bgs, Royal Bank of Canada, Kingston
50 bgs, Barclay Bank, Kingston
KYANITE ORE—64 tons, 2 cwts, Calcutta
LARKSPUR SEED—3 bgs, Rene Moelhausen, Marseilles
LAVENDER FLOWERS—90 bls, Kachurin Drug Co, Marseilles
LICORICE—40 cs, T M Duche & Sons, Marseilles
MACE—59 cs, J F Frank, Macassar
95 cs, Catz American Co, Macassar
45 cs, Catz American Co, Macassar
MAGNESITE, BURNT—4,083 bgs, Amtorg Trading Corp, Murmansk
MATCHES, SAFETY—5,000 cts, New York Match Co, Gothenburg
MATE, REFD—2 cyls, Mackennon & Coelha, Buenos Aires
MEAKIN MEAL—5,000 bgs, Mitsui & Co, Kobe
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25 bgs, Guaranty Trust Co, Lattakia
NUTMEGS — 235 bgs, Catz American Co, Macassar
57 bgs, Macassar
OCHER—80 cks, G Bally, Marseilles
400 bgs, Stanley Doggett, Marseilles
485 cks, 1,200 bgs, C K Williams & Co, Marseilles
800 bgs, J Furman, Marseilles
36 cks, Stanley Doggett, Marseilles
70 cks, Stanley Doggett, Marseilles
1,760 bgs, 71 cks, Reichard-Coulston, Marseilles
1,305 bgs, Robinson-Wagner Co, Marseilles
830 bgs, J Lee Smith & Co, Marseilles
137 cks, H W Hobbs, Marseilles
18 cks, Stanley Doggett, Marseilles
216 cks, 3,516 bgs, Reichard-Coulston, Marseilles
OIL, CAMPHOR—13 dms, Ungerer & Co, Yokohama
13 dms, Givaudan Delawanna, Yokohama
11 dms, Magnus, Mabee & Reynard, Yokohama
CANANGA—1 dm, Batavia
CASHEW SHELL—200 dms, General Foods Corp, Bombay
CASSIA—10 dms, Ungerer & Co, Hongkong
CASTOR—10 dms, Pernambuco
CHINAWOOD—1,190 tons, Universal Trading Co, Hongkong
CITRONELLA—62 cs, Guaranty Trust Co, Batavia
28 dms, National City Bank, Batavia
249 cs, 37 dms, Batavia
CLOVES—3 cks, Geo Uhe, Marseilles
32 dms, 41 cks, Tamatave
ESSENTIAL—1 cs, Bordeaux
15 dms, Puerto Barrios
4 dms, Marseilles
FUEL—37,913 bbls, Standard Oil Co of N J, Aruba
GERANIUM—16 dms, Eric Coupey, Batavia
60 dms, Batavia
3 dms, Eric Coupey, Batavia
OLIVE — 100 dms, Smith-Weihman Co, Tunis
100 dms, Mawer-Gulden-Annis, Tunis
50 dms, A N Cory & Co, Tunis
100 dms, Lekas & Drivas, Tunis
200 dms, Bonoil Packing Co, Tunis
50 dms, Leghorn Trading Co, Tunis
11 cs, Naples
5 dms, Agruba Trading Co, Lisbon
425 dms, 100 cs, Lisbon
39 pkgs, Palermo
OLIVE SULPHUR — 100 dms, Manufacturers Trust Co, Lisbon
200 dms, Banco di Napoli Trust Co, Lisbon
536 dms, Philadelphia National Bank, Lisbon
ORANGE—5 cs, Dodge & Olcott Co, Kingston
20 cs, Bank of Nova Scotia, Kingston
ORIGANUM—4 dms, Lautier Fils, Beyrouth
6 dms, Barclay Bank, Haifa
8 dms, Eric Coupey, Haifa
PALM—662 tons, Van Leeuvan-Boomkamp Co, Belawan Deli
273 tons, Balfour, Guthrie & Co, Belawan Deli
404 tons, Balfour, Guthrie & Co, Belawan Deli
PATCHOULI — 1 dm, Continental Bank Trust Co, Batavia
1 dm, Batavia
PEANUT—626 tons, Mitsui & Co, Tsingtao
PEPPERMINT — 410 cs, Amtorg Trading Corp, Murmansk
PINENEEDLE—54 cs, Amtorg Trading Corp, Murmansk
SAGE—2 cks, 1 cs, Dodge & Olcott Co, Trieste
2 cks, Public National Bank, Trieste
SOYBEAN—(Correction) In previous issue Whittaker, Clark & Daniels was credited with 300 tons; should have read Mitsubishi Shoji Kaisha, Shanghai
VETIVER — 10 dms, Continental Bank Trust Co, Batavia
1 cs, Batavia
5 dms, Eric Coupey, Batavia
7 dms, Batavia
ORE—2 bgs, Antofagasta
ORRISROOT—16 bgs, Russel Howe, Leghorn
PAINT—5 pails, N Brandon & Co, Cristobal
PAPRIKA—50 bgs, Canadian Bank of Commerce, Trieste
52 cs, H Schoenfeld & Son, Trieste
50 bgs, Van Loan & Co, Trieste
75 bgs, National Carloading Co, Trieste
100 bgs, J H Furman, Trieste
PARIS GREEN—55 cks, P R Kohler, Marseilles
PARADISE SEED—11 bgs, Kachurin Drug Co, Marseilles
12 bgs, Corn Exchange Bank Trust Co, Marseilles
14 bgs, Rene Moelhausen, Marseilles
27 bgs, Marine Midland Trust Co, Marseilles
PATCHOULI LEAVES—33 bls, F B Ross Sales Corp, Singapore
PEPPER—200 bgs, Tampico
WHITE—81 bgs, Oosthaven
168 bgs, H P Winter & Co, Tandjong Priok
PETROLEUM, CRUDE—61,706 bbls, Gulf Oil Corp, Las Piedras
PICHI LEAVES—47 bls, W R Grace & Co, Valparaiso
PIMENTO—100 bgs, A G Dunn, Kingston
POTASH CHLORATE—2,000 cs, Uniform Chem Prod Co, Gothenburg
2,000 cs, Uniform Chem Prod Co, Gothenburg
MURIATE—4,000 tons, Dunkirk
PERCHLORATE—150 cs, Robinson Wagner Co, Gothenburg
PYRETHRUM FLOWERS—28 bls, J L Hopkins & Co, Trieste
QUASSIA CHIPS—650 bgs, S B Penick & Co, Kingston
QUEBRACHO EXTRACT—1,475 bgs, International Product Corp, Buenos Aires
12,671 bgs, Tannin Corp, Buenos Aires
QUICKSILVER—33 flasks, Chase Natl Bank, Tampico
15 flasks, C L Huisking & Co, Tampico
20 flasks, F W Pabst, Vera Cruz
79 flasks, Vera Cruz
QUINCE SEED—43 bls, S B Penick & Co, Haifa
10 bls, Iran Industry Corp, Haifa
43 bls, E Meer & Co, Haifa
ROOT, MEDICINAL—20 bgs, Peek & Velsor, Trieste
ROSE LEAVES—20 bls, Marine Midland Trust Co, Marseilles
SABADILLA SEED—100 bgs, Funch, Edye & Co, La Guaira
SAFFRON—24 cs, S B Penick & Co, Vera Cruz
SAGE LEAVES—41 bls, Black Diamond Seed Co, Trieste
18 bls, Knickerbocker Mills Co, Trieste
SARSAPARILLA ROOT—18 bls, Tampico
SCHEELITE ORE—97 bgs, Chase Natl Bank, Buenos Aires
SENNA LEAVES—86 bgs, J L Hopkins & Co, Port Sudan
338 bgs, Marine Midland Trust Co, Port Sudan
40 bgs, Chase Natl Bank, Port Sudan
SESAME SEED—189 bgs, Bombay
SHELLAC—2,350 bgs, Calcutta
330 bgs, 75 cs, Calcutta
100 cs, 800 bgs, E E Androvette, Calcutta
600 bgs, E E Androvette, Calcutta
1,000 bgs, E. E. Androvette, Calcutta
SEEDLAC—900 bgs, Calcutta
1,700 bgs, Calcutta
200 bgs, E E Adrovette, Calcutta
SIENNA—45 bbls, Whittaker, Clark & Daniels, Leghorn
SILVER SULPHIDE—128 bgs, Antofagasta
SOAP BARK—49 bls, Peek & Velsor, San Antonio
SODA NITRATE—22,342 bgs, Chilean Nitrate Sales Corp, Tocopilla
SULPHATE—1,148 bgs, Antofagasta
URANATE—100 cks, Central Trading Corp, Antwerp
SPONGES—4 bls, Atlantic Sponge & Chamois Co, Havana
28 bls, Florida Sponge & Chamois Co, Havana
9 bls, Gulf & West Indies Co, Havana
12 bls, New York & Cuba Mail S S Co, Havana
27 bls, S Vollmann, Havana
5 bls, Atlantic Sponge & Chamois Co, Havana
12 bls, Havana
64 bls, Havana
REFUSE—8 bls, Florida Sponge & Chamois Co, Havana
42 bls, Gulf West Indies Co, Havana
17 bls, Havana
SQUILL—300 bgs, Irving Trust Co, Trieste
SUMAC—350 bgs, Tannin Corp, Palermo
TALC—845 bgs, D F Young, Paita
300 bgs, Charles Mathieu, Genoa
100 bgs, Whittaker, Clark & Daniels, Marseilles
4,032 bgs, Whittaker, Clark & Daniels, Dairen
TAPIOCA FLAKE—854 bgs, Stein, Hall & Co, Sourabaya
FLOUR—750 bgs, Tegal
500 bgs, Balfour, Guthrie & Co, Cheribon
1,000 bgs, Balfour, Guthrie & Co, Pamanoekan
1,100 bgs, Batavia
500 bgs, Chase National Bank, Cheribon
1,100 bgs, H P Winter & Co, Cheribon
250 bgs, Semarang
1,739 bgs, Stein, Hall & Co, Sourabaya
3,308 bgs, Pasoeroean
PEARL—268 bgs, Stein, Hall & Co, Sourabaya
ROOT—500 bgs, Sourabaya
SEED—300 bgs, Stein, Hall & Co, Sourabaya
TARTAR—102 bgs, Standard Brands, San Antonio
791 bgs, J P Morgan & Co, Naples
THYME LEAVES—40 bgs, Rene Moelhausen, Marseilles
40 bls, Corn Exchange Bank Trust Co, Marseilles
80 bls, B H Old & Co, Marseilles
TIN BARRILLA—95 bgs, W R Grace & Co, Mollendo
856 bgs, Philipp Bros, Arica
TOLU BALSAM—50 cs, E Dewitt Osborn, Puerto Cabello
TRICHLORETHYLENE—100 cks, International Selling Corp, Marseilles
TUBA ROOT—91 bls, Rutger, Bleecker & Co, Singapore
41 bls, Rutger, Bleecker & Co, Singapore
67 bls, Dodwell & Co, Singapore
200 bls, Equatorial Product Importing Co, Singapore
UMBER, BURNT—16 cks, Robinson Wagner Co, Trieste
60 ckg, J A McNulty, Trieste
23 cks, C B Chrystal & Co, Trieste
95 cks, Stanley Doggett Co, Trieste
105 cks, Smith Chem & Color Co, Trieste
9 cks, C B Chrystal & Co, Larnaca
70 cks, Chase Natl Bank, Larnaca
60 cks, Trieste
50 cks, T H Deutz, Trieste
POWDER—2,075 bgs, J Lee Smith & Co, Larnaca
2,078 bgs, Reichard Coulston, Larnaca
RAW—3 cks, C B Chrystal & Co, Larnaca
70 cks, Chase Natl Bank, Larnaca
40 cks, Smith Chemical & Color Co, Trieste
50 cks, T H Deutz, Trieste
VALONIA—9,153 bgs, Barkey Import Co, Izmir
BEARDS—2,057 bgs, Barkey Import Co, Izmir
CUPS — 3,338 bgs, Barkey Import Co, Izmir
EXTRACT—1,180 bgs, Tannin Corp, Izmir
TRILLO—1,820 bgs, Barkey Import Co, Izmir
VANADIUM ORE — 11,320 bgs, Vanadium Corp of America, Callao
VANILLA BEANS—23 cs, J Manheimer, Batavia
WAX, BEES—40 bgs, D A Zarrilla, Tampico
16 bgs, Chase National Bank, Tampico
13 seroons, Porcella Vicini & Co, Puerto Plata
150 bgs, Wessel, Duval & Co, Lisbon
80 bgs, Smith & Nichols, Brazil
80 bgs, Brown Bros-Harrimann Co, Brazil
564 bgs, Brazil
100 bgs, D Steengrafe, Brazil
678 bgs, Brazil
CANDELILLA—1,206 bgs, M Argueso & Co, Tampico

WAX, CARNAUBA—68 bgs, Bank of London-South America, Bahia
404 bgs, Strohmeyer & Arpe Co, Bahia
87 bgs, American Cyanamid & Chem Co, Brazil
777 bgs, Lenape Trading Co, Brazil
493 bgs, Bank of London-South America, Brazil
221 bgs, W R Grace & Co, Brazil
55 bgs, Wessel, Duval & Co, Brazil
134 bgs, Chase National Bank, Brazil
CURICURY — 17 bgs, Brown Bros-Harrimann Co, Bahia
WOLFRAM ORE—101 bgs, Chase National Bank, Buenos Aires
95 bgs, Metaal Handel Mij, Lisbon
533 bgs, W R Grace & Co, Mollendo
446 bgs, East Asiatic Co, Singapore
ZINC CONCENTRATES—2,540 tons, Cerro de Pasco Copper Corp, Callao
OXIDE—56 bbls, Reichard-Coulston, Marseilles
1 cs, United States Rubber Co, Gothenburg

New York Transit Imports

ANISE STAR—249 bgs, D G Evans Coffee Co, Marseilles, St Louis
CAROB BEANS—3,200 bgs, Blatchford Calf Meal Co, Limassol, Waukegan, Ill
1,600 bgs, M F Neal & Co, Limassol, Richmond, Va
3,200 bgs, M F Neal & Co, Trieste, Richmond, Va
CELERY SEED—30 bgs, Canadian Natl Bank, Marseilles, Canada
CREAM TARTAR—20 cks, Canadian Natl Railway, Marseilles, Halifax
FLEASEED—40 bgs, Canadian Natl Bank, Marseilles, Canada
GENTIAN ROOT—30 bls, Canadian Natl Bank, Marseilles, Canada
LAVENDER FLOWERS—5 bls, Canadian Natl Bank, Marseilles, Canada
LEAVES, MEDICINAL—20 bls, Canadian Natl Bank, Marseilles, Canada
MARJORAM LEAVES—20 bls, Canadian Natl Bank, Marseilles, Canada
OIL, COCONUT—243 tons, Philippine Refg Corp, Cebu, Toronto
COTTONSEED—794,020 kilos, Zimmermann, Alderson, Carr Co, Alexandria, Canada
PAPRIKA—50 bgs, Frank Tea & Spice Co, Trieste, Cincinnati
25 bgs, McLaughlin, Gormley & King, Trieste, Minneapolis
30 bgs, J Sexton & Co, Trieste, Chicago
100 bgs, D E Evans Coffee Co, Trieste, St Louis
200 bgs, Swift & Co, Trieste, Chicago
SAGE LEAVES—18 bls, G S Dunn, Trieste, Hamilton
THYME LEAVES—20 bls, Canadian Natl Bank, Marseilles, Canada

Baltimore Imports

BONES—267 bgs, Montevideo
1,071 bgs, Buenos Aires
CALCIUM SILICON—474 bbls, Sauda
CHROME ORE—3,330 tons, Bethlehem Steel Co, Pastelillo
1,000 tons, Thessaloniki
COPRA—750 tons, Procter & Gamble Co, Bulan
942 tons, Procter & Gamble Co, Negros
750 tons, Procter & Gamble Co, Zamboanga
DERRIS ROOT—50 bls, Kobe
FERROMANGANESE—1,909 tons, 2,600 bbls, Sauda
IRON ORE—1,500 tons, Masinloc
MANGANESE ORE—8,355 tons, Durban
6,800 tons, Rio Janeiro
7,200 tons, Rio Janeiro
MEAKIN MEAL—2,000 bgs, Nagoya
OIL, FUEL—62,838 bbls, Standard Oil Co, N J, Aruba
45,597 bbls, Standard Oil Co, N J, Aruba
PEATMOSS—711 bls, Riga
PYRITES—4,943 tons, Huelva
QUEBRACHO EXTRACT—531 bgs, Buenos Aires

Boston Imports

GUM ARABIC—150 bgs, American Cyanamid & Chem Co, Port Sudan
100 bgs, I Sobin & Co, Port Sudan
134 bgs, Parke, Davis & Co, Port Sudan
100 bgs, T M Duche & Sons, Port Sudan
150 bgs, Colony Import & Export Co, Port Sudan
450 bgs, Barclay Bank, Port Sudan
300 bgs, Port Sudan
KARAYA—100 bgs, Bombay
MACE—14 cs, Catz American Co, Macassar
MICA—102 cs, First Natl Bank, Buenos Aires
SCRAP—693 bgs, Calcutta
SPLITTINGS—43 cs, Gillespie, Rogers, Pyatt Co, Calcutta
880 cs, Calcutta
OIL, COCONUT—1,789 tons, Philippine Refg Corp, Cebu
PALM—263 tons, Mincing Trading Corp, Belawan Deli
PEPPER, WHITE—172 bgs, Catz American Co, Belawan Deli
SHELLAC—50 bgs, 25 cs, Calcutta
600 bgs, Schwab Bros, Calcutta
SEEDLAC—400 bgs, Calcutta
TALC—150 bgs, Whittaker, Clark & Daniels, Marseilles
150 bgs, L A Salomon & Bros, Marseilles
TAPIOCA FLOUR—1,040 bgs, Balfour, Guthrie & Co, Pamanoekan

Charleston Imports

TAPIOCA FLOUR—250 bgs, Tandjong Priok

Los Angeles Imports

AGAR—50 lbs, Tokio
ALUMINA SILICATE—105,280 lbs, Calcutta

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AMMONIA PHOSPHATE—71,680 lbs, Trail
SULPHATE—20,160 lbs, Trail
ARSENIC—220,720 lbs, Stockholm
BLEACHING POWDER—30,860 lbs, Frankfort
BONEMEAL—99,900 lbs, Tsingtao
CHILLIES—4,000 lbs, Kobe
CLOVES—300 lbs, Hongkong
COPRA—3,868,480 lbs, Philippine Islands
MEAL—2,000 bgs, 200,000 lbs, Philippine Islands
FISH LIVERS—81 tins, 3,240 lbs, Japan
1,023 tins, 40,920 lbs, Yokohama
160 tins, 6,400 lbs, Kobe
GINGER ROOT—1,300 lbs, Hongkong
GUM, ELEMI—2,000 lbs, Manila
IRON OXIDE—124,010 lbs, Malaga
MEDICINAL PREPS—150 lbs, Paris
OIL, CRESOTE—3,637,760 lbs, Osaka
PEANUT RESIDUE—74,760 lbs, Vancouver
PAPRIKA—5,500 lbs, Budapest
PEATMOSS—179,200 lbs, Copenhagen
163,520 lbs, Malmo
RAPESEED—180,000 lbs, Tokio
RESIN, VINYL—1,000 lbs, Montreal
SHELLAC—36,800 lbs, Calcutta
SIENNA, RAW—13,510 lbs, Leghorn
SODA NITRATE—907,200 lbs, Tocopilla
STARCH—500 lbs, Japan
TALC—55,120 lbs, Shanghai
TOILET PREPS—70 lbs, Yokohama
350 lbs, Kobe
160 lbs, Kobe
YEAST, DRY—70 lbs, Budapest

Norfolk Imports

TAPIOCA FLOUR—8,006 bgs, Stein, Hall & Co, Sourabaya

Philadelphia Imports

CALCIUM NITRATE—340,200 kilos, National City Bank, Heroen
4,736 bgs, National City Bank, Heroen
CASEIN, GRD—934 bgs, Buenos Aires
CHILLIES—112 bgs, Bank of California, Kobe
CHROME ORE—4,500 tons, E J Lavino, Masinloc-Zimbales
COCOA BEANS—1,000 bgs, Victoria
1,000 bgs, Curacao Trading Corp, Bahia
2,000 bgs, Bankers Trust Co, New York, Ilheus
4,000 bgs, Philadelphia National Bank, Ilheus
1,000 bgs, National City Bank of New York, Ilheus
500 bgs, Chase National Bank, Ilheus
1,000 bgs, Ilheus
CORK, VIRGIN—270,000 kilos, Armstrong Cork Co, Sevilla
WOOD—66,774 kilos, Armstrong Cork Co, Sevilla
WASTE—547,795 kilos, Armstrong Cork Co, Sevilla
903,929 kilos, Armstrong Cork Co, Sevilla
GRAPHITE, CHIP—504 bgs, New York Trust Co, Tamatave
POWDER—250 bgs, New York Trust Co, Tamatave
LICORICE ROOT—2,005 tons, Mac Andrews & Forbes Co, Poti
MACE—19 cs, Banda
11 cs, Macassar
MAGNESITE—425 bgs, Central Hanover Bank & Trust Co, Rotterdam
120 dms, Speiden, Whitfield & Co, Inc, Rotterdam
MOLASSES—1,155,287 gls, Cienfuegos
NUTMEGS—32 bgs, Macassar
OIL, MUSTARD SEED—100 dms, Tientsin via Kobe
OLIVE—110 cs, Giacomo Foti, Leghorn
125 cs, Liberty Title & Trust Co, Leghorn
PARAFFIN—720 bgs, Asiatic Petroleum Corp, Balik Papan
POTASH, KAINIT—A parcel, French Potash Co, Ltd, Antwerp
MURIATE—A parcel, French Potash Co, Ltd, Antwerp
SULPHATE—6,120 bgs, French Potash Co, Ltd, Antwerp
PYRITES ORE—6,878 tons, Pyrites Co, Huelva
PETROLEUM, CRUDE—270,974 bbls, Gulf Oil Corp, Puerto la Cruz
173,269 bbls, Gulf Oil Corp, Las Piedras
QUEBRACHO EXTRACT—1,500 bgs, International Products Corp, Buenos Aires
5,100 bgs, Tannin Corp, Buenos Aires
RED OXIDE—841 bbls, F B Vandegrift & Co, Malaga
SESAME SEED—124 bgs, Bombay via Kobe
SHELLAC—150 bgs, Calcutta
SUMAC, GRD—700 bgs, Market Street National Bank, Palermo
TAPIOCA FLOUR—2,750 bgs, Tjilatjap
250 bgs, Philadelphia National Bank, Cheribon
500 bgs, Chase National Bank, Cheribon
250 bgs, Cheribon
WAX, VEGET—50 cs, Mnzi
100 cs, Chase National Bank, Kobe
100 cs, Manhattan Company, Kobe
50 cs, Kobe

San Francisco Imports

OIL, RICE BRAN—140 tons, W R Grace & Co, Kobe

Exports from U.S. Ports

Baltimore Exports

ACETONE—714 lbs, Manila
CLAY—5,900 lbs, Santos; 400 lbs, Buenos Aires
COLOR DRY EARTH—77 lbs, Santos
GREASE—76,500 lbs, Shanghai
LEAD ARSENATE—2,016 lbs, Capetown
MAGNESIA CARBONATE—30 lbs, Santos
PORCELAIN ENAMEL FRIT—13,800 lbs, Santos; 8,425 lbs, Buenos Aires
POTASH MURIATE—45,248 lbs, Lourenco Marques
SODA ASH—551,100 lbs, Buenos Aires
BICARBONATE—3,200 lbs, Manila
CAUSTIC—560,000 lbs, Buenos Aires; 236,250 lbs, Manila; 214,900 lbs, Manila

Los Angeles Exports

ACETONE—702 dms, 233,770 lbs, Liverpool
ACID, BORIC—66 bgs, 7,390 lbs, Sydney; 40 bgs, 4,480 lbs, Melbourne; 140 bgs, 15,440 lbs, Rio Janeiro; 100 bgs, 11,030 lbs, Santos; 2,900 bgs, 324,800 lbs, Liverpool; 300 pkgs, 33,600 lbs, Hongkong; 200 bgs, 22,400 lbs, London; 550 pkgs, 66,450 lbs, Shanghai; 40 bgs, 4,480 lbs, Auckland
CITRIC—6,600 lbs, Rio Janeiro
NAPHTHENIC—2 cs, 20 lbs, London
STEARIC—2,600 lbs, Singapore; 1,000 lbs, Port Swettenham
ALCOHOL, ALLYL—17 dms, 6,910 lbs, London
BUTYL—4 dms, 1,480 lbs, Calgary
DIACETONE—137 dms, 55,620 lbs, London
ALLYL CHLORIDE—6 dms, 2,320 lbs, London
ASPHALT—109 dms, 58,240 lbs, Sydney; 102 dms, 44,800 lbs, Melbourne; 11 bbls, 5,110 lbs, Bombay; 27 dms, 11,250 lbs, Aalbrook Field
GILSONITE—58 bgs, 11,200 lbs, Calcutta; 1,499 bgs, 325,920 lbs, Japan
LIQUID—601 dms, 246,400 lbs, Samarang or option
REFINED—37 bbls, 16,800 lbs, Buenos Aires
SOLID—10 bbls, 4,480 lbs, Vancouver; 1,051 dms, 520,920 lbs, Bombay; 525 dms, 224,000 lbs, Singapore/Port Swettenham/Penang; 205 dms, 89,600 lbs, Hongkong; 4 dms, 1,700 lbs, San Juan; 237 dms, 99,920 lbs, Balboa
BALSAM—890 lbs, Buenos Aires
BLACK, CARBON—74,820 lbs, Shanghai/Hongkong; 18,750 lbs, Shanghai; 76,130 lbs, Hongkong
BORATE—3,430 bgs, 623,670 lbs, Liverpool; 3,531 bgs, 602,230 lbs, Osaka/Yokohama
BORAX—293 bgs, 32,820 lbs, Sydney; 5 bgs, 560 lbs, Melbourne; 700 bgs, 77,180 lbs, Rio Janeiro; 800 bgs, 88,200 lbs, Santos; 4,767 bgs, 533,900 lbs, Liverpool; 1,073 bgs, 178,620 lbs, Osaka/Yokohama/Kobe; 600 bgs, 67,200 lbs, Hongkong; 600 bgs, 67,200 lbs, Liverpool; 2,880 bgs, 336,000 lbs, Manchester; 200 bgs, 22,400 lbs, London; 1,000 bgs, 110,250 lbs, Shanghai; 100 bgs, 11,200 lbs, Karachi; 1,340 bgs, 150,080 lbs, Bombay; 358 bgs, 50,660 lbs, Sydney
BUTYL ACETATE—30 dms, 11,820 lbs, Buenos Aires
CARAWAY SEED—440 lbs, Shanghai
CARBON, RESIDUE—389 bgs, 42,790 lbs, Yokohama
CHEMICALS—8,210 lbs, Bombay; 2,200 lbs, Calcutta; 1,410 lbs, Shanghai
CLAY—300 bgs, 30,000 lbs, Sydney; 700 bgs, 70,000 lbs, Melbourne
ACTIVATED—5,888 bgs, 29,340 lbs, Bombay
FILTER—500 lbs, Vancouver
GROUND—1,200 sx, 120,960 lbs, San Fernando; 250 dms, 69,440 lbs, Liverpool
CLEANER—3,360 lbs, Port Spain; 410 lbs, Buenos Aires; 1,960 lbs, Shanghai
COALTAR INTERMEDIATES — 1,120 lbs, Jesselton; 2,250 lbs, Yokohama
PRODUCTS—1,430 lbs, Sydney; 2,000 lbs, Geelong; 1,650 lbs, Batavia; 1,000 lbs, Bombay; 3,630 lbs, Singapore; 3,500 lbs, Singapore; 2,700 lbs, Penang; 13,540 lbs, Shanghai; 790 lbs, Semarang; 500 lbs, Madras; 1,000 lbs, Bombay
COBALT, DRIER—23 dms, 2,740 lbs, Santos
COCOA BUTTER—3,200 lbs, Shanghai
COLOR, DRY—1,000 lbs, Melbourne
COTTON LINTERS—500 bls, 304,110 lbs, Liverpool; 4,245 bls, 2,326,500 lbs, Manchester
DENTIFRICE—480 lbs, Medan
DIATOMACEOUS EARTH—1,428 bgs, 142,800 lbs, Buenos Aires; 225 bgs, 22,500 lbs, Rio Janeiro; 40 bgs, 4,000 lbs, Batavia; 10 bgs, 1,000 lbs, Sourabaya; 10 bgs, 1,000 lbs, Shanghai; 224 bgs, 22,400 lbs, Dublin; 1,255 bgs, 123,500 lbs, Havana; 672 bgs, 67,200 lbs, Manhester; 1,427 bgs, 146,270 lbs, London; 1,913 bgs, 123,130 lbs, Liverpool; 7 bgs, 700 lbs, Semarang; 100 bgs, 10,250 lbs, Auckland
DICHLORODIFLUOROMETHANE — 10 cyls, 1,450 lbs, Auckland
DRUGS—140 lbs, Padang
ETHYL KETONE—644 dms, 224,110 lbs, London; 144 dms, 50,110 lbs, Liverpool
ETHYLENEGLYCOL—250 lbs, Hsingking
FILM SCRAP—5,050 lbs, Liverpool
FLUORSPAR—1,000 lbs, Manila
FLUX, LIQ—920 lbs, Hongkong
FORMALDEHYDE—270 lbs, Rangoon
GASOLINE—85,748 bbls, Dairen; 9,415 bbls, Yokohama; 52,706 bbls, Hongkong/Tsingtao/Shanghai; 16,782 bbls, Haiphong; 16,782 bbls, Rangoon; 24,166 bls, Balboa/Cristobal
GINSENG—3,300 lbs, Hongkong
GLASS, PLATE—52,400 lbs, Sydney; 34,990 lbs, Adelaide; 11,490 lbs, Brisbane; 8,750 lbs, Sydney
GLUE—140 lbs, Shanghai
GLYCERIN—530 lbs, Hsingking
GREASE—22 bbls, 4,900 lbs, Auckland
LUBRICATING — 55 dms, 58 ctns, 15,250 lbs, Vancouver; 295 dms, 555 pls, 51,470 lbs, Port Moody; 278 cs, 11,500 lbs, Port Moody; 15 dms, 5 cs, 6,150 lbs, Singapore; 25 dms, 10,150 lbs, Singapore/Port Swettenham/Penang; 27 pkgs, 1,200 lbs, Panama; 4 pls, 150 lbs, Aalbrook Field; 40 pls, 2,000 lbs, Balboa; 5 dms, 580 lbs, Fort Clayton
GUM, CHICLE—33,280 lbs, Sydney
HERBS—1,960 lbs, London
HOPS—5,400 lbs, Shanghai
INK, PRINTING—4,530 lbs, Shanghai; 500 lbs, Belawan
INSECTICIDE—540 lbs, Singapore
AGRICULTURAL—1,000 lbs, Bangkok; 2,260 lbs, Auckland
LIQUID—2,760 lbs, Singapore; 2,450 lbs, Bombay
KEROSENE—46,039 bbls, Hongkong/Shanghai/Tsingtao; 70 cls, Pago Pago; 500 cs, Panama; 7,738 bbls, Balboa/Cristobal
DISTILLATE—2,750 bbls, Hongkong; 22,870 bbls, Osaka/Yokohama
LACQUER—1,260 lbs, Rio Janeiro
LARD—1,200 lbs, Manila
LEAD, WHITE—5,000 lbs, Batavia
LIME—2,000 lbs, Sydney
LINSEED MEAL—199,360 lbs, Port of Spain
LITHOPONE—67,200 lbs, Hongkong
MEDICINAL PREPS—5,150 lbs, Sydney; 350 lbs, Batavia; 460 lbs, Bombay
OCHER—500 lbs, Sydney
OIL, CASTOR—2,800 lbs, Shanghai
CEDARWOOD—200 lbs, Yokahama
CRESOTE—110 lbs, Pago Pago
DIESEL—86,477 bbls, Onagawa/Yokahama; 12,007 bbls, Corinto; 39,111 bbls, Vancouver; 1,473 bbls, Porto Armuelles; 38,511 bbls, Shimotsu
EDIBLE—7,200 lbs, Auckland
FISH—840 lbs, Auckland
FUEL—50,750 bbls, La Union; 26,150 bbls, Vancouver; 7,700 bbls, Vancouver; 37,992 bbls, Manila; 52,013 bbls, Tocopilla; 37,677 bbls, Chanaral
LEMON—6,220 lbs, London
LUBRICATING—20 dms, Dairen; 10 dms, Sydney; 3 dms, Melbourne; 280 dms, Melbourne; 40 dms, Vancouver; 137 dms, Port Moody; 83 dms, Singapore; 255 dms, Singapore/Port Swettenham/Penang; 161 dms, Sourabaya; 320 pls, Singapore; 9 bxs, Hongkong; 84 dms, Kobe; 18 tanks, Colombo; 55 pkgs, Auckland; 60 dms, San Juan; 50 dms, Mayaquez; 84 dms, 26 pls, Panama; 45 ctns, Corozal; 80 ctns, Fort Amador; 70 ctns, Fort Clayton; 30 ctns, Aalbrook Field
OIL, MINERAL—450 lbs, Hongkong
OLEO—10,120 lbs, Hongkong
ORANGE—100 lbs, Melbourne; 140 lbs, London; 2,000 lbs, London
PAINT—40 dms, 17,000 lbs, Parramatta
PINE—1,460 lbs, Sydney; 1,460 lbs, Suva
TRANSFORMER—3 bxs, 300 lbs, Tientsin
PAINT—150 lbs, Suva; 2,700 lbs, San Juan
PASTE—1,250 lbs, San Juan
PECTIN, CITROUS—2,200 lbs, Melbourne; 2,000 lbs, Liverpool; 2,000 lbs, London
PETROLEUM, COKE—2,204,000 lbs, Yokahama; 2,204,000 lbs, Wakamatsu; 2,204,000 lbs, Osaka
CRUDE—63,200 bbls, Vancouver; 25,094 bbls, Iloco; 73,657 bbls, Yokahama; 47,026 bbls, Vancouver; 22,481 bbls, Osaka/Yokahama
GAS, LIQ—39 cyls, 5,900 lbs, Vancouver; 93 cyls, 3,560 lbs, Auckland
PHARMACEUTICAL PREPS—530 lbs, Madras; 130 lbs, Calcutta; 750 lbs, Bombay; 1,260 lbs, Singapore; 4,400 lbs, Kobe; 1,130 lbs, Shanghai; 440 lbs, Shanghai; 110 lbs, Padang
POLISH—280 lbs, Melbourne
POTASH BICARBONATE—1,000 lbs, Sydney; 2,060 lbs, Sydney
RESIN—2,000 lbs, Sydney; 3,990 lbs, Sydney
SOLID—1,430 lbs, Wellington
SALT—1,100 lbs, Batavia
SAND, SILICATE—1,000 lbs, Sydney
SOAP—160 lbs, Tokio; 106,800 lbs, Ponce; 32,100 lbs, San Juan
COMPOUND—820 lbs, Vancouver
DRY—330 lbs, Manila
POWDER—1,570 lbs, Vancouver
TOILET—190 lbs, Singapore; 130 lbs, Peiping
SODA ASH—25,000 lbs, Sydney; 220,400 lbs, Buenos Aires
BICARBONATE—4,480 lbs, Suva
BICHROMATE—16,410 lbs, Melbourne; 20,000 lbs, Sydney
STANNATE—100 lbs, Melbourne
SULPHITE—2,000 lbs, Auckland
SOLVENTS—69 dms, 22,430 lbs, Vancouver; 20 dms, 7,960 lbs, Buenos Aires; 2 dms, Calgary
SULPHUR DIOXIDE—620 lbs, Hongkong
TALC—300 bgs, 36,960 lbs, Sao Paulo; 500 lbs, Wellington
TOILET PREPS—120 lbs, Sydney; 2,100 lbs, Bombay; 170 lbs, Sourabaya; 780 lbs, Singapore; 630 lbs, Cairo; 1,070 lbs, Hongkong; 850 lbs, Panama City; 1,850 lbs, Barranquilla; 380 lbs, Port Prince; 870 lbs, Hongkong; 100 lbs Batavia; 430 lbs, Pago Pago; 120 lbs, Mayaquez
WAX, FLOOR—920 lbs, Hongkong
PASTE—120 lbs, San Juan
YEAST—6,500 lbs, Kobe; 5,000 lbs, Yokahama; 5,000 lbs, Shanghai
ZINC OXIDE—100 lbs, Wellington

New Orleans Exports

GASOLINE—57 tons, Ceiba; 142 tons, Puerto Cabezas
LARD—5 tons, West Coast
LIME—50 tons, Ceiba
OIL, DIESEL—92 tons, Puerto Cabezas
FUEL—504 tons, Ceiba
PINE—88 tons, West Coast
TRACTOR FUEL—8 tons, Puerto Cabezas
PETROLEUM DISTILLATE—36 tons, Ceiba
ROSIN—21 tons, West Coast
SALT—30 tons, Havana
SOYBEAN MEAL—50 tons, Havana

Coastwise Shipments

Los Angeles Coast Trade

GASOLINE—46,381 bbls, Seattle; 6,553 bbls, San Diego; 10,815 bbls, Richmond; 4,305 bbls, San Diego; 11,560 bbls, San Diego, 10,926 bbls, San Diego
OIL, DIESEL—8,340 bbls, Seattle; 1,465 bbls, San Diego; 13,331 bbls, Seattle; 1,472 bbls, San Diego; 4,307 bbls, San Diego; 4,450 bbls, San Diego
FUEL—100,903 bbls, Richmond; 48,378 bbls, Portland; 68,462 bbls, Seattle; 43,967 bbls, Seattle; 66,978 bbls, Oleum; 21,630 bbls, Eureka; 64,493 bbls, Oleum; 64,842 bbls, Avon; 25,014 bbls, San Diego; 66,136 bbls, Portland; 65,354 bbls, Paulsboro; 29,816 bbls, Paulsboro
FURNACE—2,598 bbls, Seattle
PETROLEUM, CRUDE—80,458 bbls, Oleum
SOLVENTS—28,046 bbls, Paulsboro

Imports Detained

Detentions recently effected at various ports by United States authorities on determination by the Food and Drug Adiministration that products offered for import were adulterated or misbranded under the Federal food and drug and cosmetic act, or did not comply with other customs regulations, included the following articles for the reason stated:—

New York
Week Ended January 24

Balsam, 20 cases; restricted use.
Cod oil, 25 drums; restricted use.
Cumin seed, 83 bags; filthy.
Digitalis leaf, 1 case; not U.S.P.
Ergot, 27 cases; not U.S.P.
Eucalyptus oil, 10 drums; restricted use.
Medicinal preparations, 5 cases; false and misleading statements.
Medicinal preparations, 1 case; alcohol not declared.
Medicinal preparations, 3 cases; new drug.
Medicinal preparations, 1 parcel, new drug; dangerous drug.
Medicinal preparations, 1 case; dangerous drug.
Nutmegs, 933 bags; restricted use.
Pollack liver oil, 200 drums; restricted use.

Baltimore
Week Ended January 24

Ginger, green, 1 case; decomposed.
Lactic casein, 417 bags; restricted use.

Industrial Uses of Chemicals and Related Materials

(Formerly Styled "Where You Can Sell")

Producers' Guide to New Markets Technical Information for Processors

Fully protected by copyright

Six-hundred-eight-second Recapitulative Instalment

(Parenthetical references are to the numbers of patents in the United States or other countries, as designated)

Barium Carbonate

(Barium Carbonat, Bariumkarbonat, Carbonate of Baryta, Carbonate de Baryte, Carbonate de Baryum, Carbonato de Bario, Carbonato di Bario, Kohlensauresbarium, Kohlensauresbaryt, Precipitated barium carbonate, Witherite)

(Two kinds of barium carbonate are marketed —(1) a mineral, a naturally occurring barium carbonate, known as Witherite, and (2) a manufactured, or artificial, product known as precipitated barium carbonate. The artificial carbonate is the more expensive of the two, and is claimed to be a superior product in certain respects. In the following survey of uses no attempt is made to indicate or suggest which of the two kinds of barium carbonate is the more useful for the purpose indicated; obviously, in some cases, price might be a controlling factor, while in others color would have great bearing on the point.)

Analysis

Reagent in—
- Analytical processes involving control and research in science and industry

Reagent in detecting—
- Free hydrochloric acid in gastric juice

Reagent in removing—
- Sulphuric acid from solutions

Reagent in separating aluminum and iron from—

Aluminum and iron from—
- Calcium
- Magnesium
- Manganese
- Zinc

Building Construction

Retarder of disintegrating action of sulphates upon—
- Betons
- Concretes
- Cements

Cement

Ingredient of—
- Acid-resisting, hydraulic cement (French 632634)
- Cement (U.S. 1296468 and 1456667)
- Hydraulic cement (U.S. 1186522, 1224454, and reissue 14773)
- Magnesia cement (U.S. 1212575)
- Portland cement (U.S. 1194344)

Ceramic

Precipitant for—
- Soluble sulphates in clays and pugging waters

Preventer of—
- Scum, whitewash, and efflorescence effects in finished products, such as—
  - Common brick
  - Enamelled brick and tile
  - Enamelled ware
  - Face brick
  - Miscellaneous clay products
  - Paving brick
  - Porcelain
  - Potteries
  - Salt-glazed brick
  - Salt-glazed conduit
  - Sewer pipe
  - Terra-cotta
  - Tile

Process material in making—
- Ceramic glazes (U.S. 1245285)

Chemical

Energizing agent (U.S. 1374642) for—
- Carbon

Fixing agent (U.S. 1397094) for—
- Sulphur dioxide

Neutralizing agent for—
- Acids
- Hydrochloric acid (U.S. 1298553 and 1298554)

Precipitant for soluble sulphates in—
- Brines used in making sodium salts for industrial use and chlorine
- Process waters generally
- Waters for power plant operation

Process material in—
- Hydrolyzing ethylene dichloride (U.S. 1928240)
- Nitrogen fixation processes (U.S. 1175007, 1409124, 1441693, 1441695, and 1501760)
- Purifying maleic acid (U.S. 1914556)

Process material in making—
- Acetaldehyde (U.S. 1928240)
- Alkali cyanides (U.S. 1501840)
- Aluminum fluoride (U.S. 1518872)
- Ammonia (U.S. 1209258, 1237485, 1483413, and 1501840)
- Ammonium carbonate (U.S. 1209258)
- Barium bromide (U.S. 1343918)
- Barium chloride (U.S. 1209258, 1428646, 1460180, and 1495893)
- Barium cyanamide (U.S. 1318258)
- Barium cyanide (U.S. 1237485, 1295049, 1314231, 1318258, 1352175, 1355642, 1409124, and 1501840)
- Barium dioxide (U.S. 1243190)
- Barium fluoride (U.S. 1194344)
- Barium fluosilicate (U.S. 1518872)
- Barium hydroxide (U.S. 1191106, 1247510, 1250642, 1460180, and 1490769)
- Barium manganate (U.S. 1318891)
- Barium oxide (U.S. 1243190, 1250642, 1305618, 1318258, and 1326332)
- Barium permanganate (U.S. 1318891)
- Barium silicates of various kinds (U.S. 1247510, 1463037, and 1490769)
- Barium sulphate (U.S. 1310384)
- Beta-acetylethyldiethylamine (U.S. 1126549)
- Carbons (decolorizing) (U. S. 1250228)
- Carbon dioxide (U.S. 1209258)
- Carbon monoxide (U.S. 1326332)
- Chlorine solution (U.S. 1298553 and 1298554)
- Chromic acid (chemically pure) (French 669480)
- Cuprous chloride (U.S. 1207243)
- Cyanides (U.S. 1364838 and 1386941)
- Cymenesulphonic acids (U. S. 1316823)
- Ethyl alcohol (U.S. 1284739 and 1284740)
- Ethyleneglycol (U.S. 1259757, 1259758, and 1928240)
- Glycerin (U.S. 1219485, 1219486, and 1248402)
- Hexamethylenetetramine (Brit. 396467)
- Ferric arsenate (U.S. 1146373)
- Ferric arsenite (U.S. 1146373)
- Ferric oxide (U.S. 1146373 and 1251564)
- Ferric sulphate (U.S. 1186611 and 1251564)
- Lithopone (U.S. 1494674)
- Metaldehyde (U.S. 1432387)
- Potassium carbonate(U.S. 1194344; French 752507)
- Potassium chloride (U.S. 1186522, 1194344, 1224454, and reissue 14773)
- Propyleneglycol (U.S. 1259757 and 1259758)
- Quebracho tanning compound (U.S. 1241950)
- Sodium cyanamide (U.S. 1318258)
- Sodium cyanide (U.S. 1318258 and 1352175)
- Sodium ferrocyanide (U.S. 1318258)
- Sodium hydroxide (U.S. 1249314)
- Sulphosalicylic acid
- Tanning compounds (U.S. 1241950, 1414045, and 1421722)
- Titanium oxide (U.S. 1412027)
- Zinc sulphate (U.S. 1494674)

Reagent for removing—
- Iron compounds from zinc sulphate (U.S. 1494674)
- Lead from zinc solutions (U.S. 1380514 and 1380515)
- Sulphates
- Sulphuric acid from metaldehyde (U.S. 1432387)

Starting point in making—
- Catalysts used in making ammonia (U.S. 1473543 and 1483412)
- Hydrogenation catalysts (U. S. 1152765)
- Porous barium oxide (U.S. 1913289; Ger. 590854)

Starting point in making miscellaneous barium salts, such as—

Aluminate	Nitrate
Bromide	Oxide
Chlorate	Permanganate
Chloride	Peroxide (dioxide)
Cyanamide	Selenite
Cyanide	Silicates
Chromate	Stearate
Fluosilicate	Sulphate, precipitated (blanc fixe)
Fluoride	
Hydroxide	Titanate
Manganate	

(To be continued.)

4-Chlor-3-ethyl-7:8-benzquinolin

Pharmaceutical

Claimed (Brit. 481874) as—
- Colorless product useful in destroying blood parasites (malaria), amebae, and worm infections

3:4-Dicyanobenzophenone

Dye

Reactant in making—
- Synthetic dyestuffs

Starting point (Brit. 322169, 389842, 390149, 418367, and 468043) in making—
- Coloring agents for viscose or cuprammonium rayon and other textile fibers
- Color lakes
- Wallpaper coloring agents

Dodecyl Thiocyanoethylether

Disinfectant

Claimed (Brit. 481733) as—
- Bactericide

Insecticide and Fungicide

Claimed (Brit. 481733) as—
- Insecticide
- Vermin exterminant

Kappagammahydroxy-N-butylundecoic Acid

Perfume

Starting point (Brit. 440416, 452242, and 452272) in making—
- Lactones having strong musklike odors

Lead Borate

(Bleiborat, Borate de Plomb, Borate Plombique, Borato di Piombo, Borato de Plomo, Borsauresblei, Plomb Bore, Plumbous Borate)

Electric

Coating agent (U.S. 1365331) for—
- Resistors

Process material in—
- Galvanoplastic work

Glass

Process material in making—
- Leaded glass

Paint and Varnish

Drier in—
- Paints, enamels, varnishes, and other products

Ingredient of—
- Bridge paints
- Canal-lock paints
- Floodgate paints
- Marine paints
- Paints, enamels, varnishes, of various sorts
- Seawater-resistant paints
- Ship paints
- Sluice paints
- Waterproof paints

Process material (Brit. 400799) in making—
- Driers for paints from fatty acids of wool-grease and one or more of the acids commonly used in the manufacture of driers, such as naphthenic, linoleic, or resin acids, or the acids obtained by oxidizing paraffin or petroleum

Wood

Fireproofing agent (U.S. 1216729) for—
- Pine, red oak, and other woods

Methyl Fluoroformate

Chemical

Reactant in—
- Organic syntheses

Military

Suggested for use as—
- Military poison gas

Oxalyl Bromide

(Ethanedioyl Bromide)

Chemical

Reactant in—
- Organic syntheses

Military

Suggested for use as—
- Military poison gas

Trichloromethyl Ether

Military

As a poison gas (lachrymator)

Undecylureidomethylpyridinium Chloride

Textile

Waterproofing agent (Brit. 497856) for—
- Textiles (said to give water-repellent effect fast to washing and dry cleaning)

Zirconium Naphthenate

(Naphtenate de Zircone, Naphtenate Zirconique, Naphtenate de Zirconium, Naphtensaureszirkon, Naphtenzirkon)

Ceramic

Ingredient of—

Enamels Glazes

Mechanical

Suggested lubricant for—
- Cylinders

Suggested ingredient of—
- Cylinder lubricants

Miscellaneous

New processing material offering following properties—
- Amber-colored liquid
- Consistency of heavy lubricating oil
- Fully transparent
- Great stability
- No drying properties
- Soluble in all common solvents

Paint and Varnish

Minimizer of—
- Moisture effects
- Solar radiation effects

Suggested antichalking agent in—
- Paints and enamels, especially those containing titanium oxide

5167 Informative articles that have appeared in the department have been collected in a big book of universal usefulness to producers and users. **You Need It.** **$10** Postage paid in U. S. plus 39c postage elsewhere

Business Wants and Offers

Minimum rate (up to 36 words), without display, $2.00 per insertion; 25c for each additional 6 words
Payable in advance at 59 John Street, New York

Agencies Wanted

NEW ENGLAND manufacturers' representative covering the paint and varnish, lacquer, leather and paper trades would consider additional accounts. BOX 689, Oil, Paint and Drug Reporter.

ATTENTION PRODUCERS raw materials:—We are in a position to represent one or two more reputable Principals. Territory—Philadelphia including Eastern Pennsylvania and Southern New Jersey, Delaware, Baltimore, Washington and Richmond, Va.—Strictly commission basis on sales only. Our facilities—ten salesmen—assuring thorough coverage of more than 50 classes of trade—all wholesale and manufacturing, we cover no retailers. We maintain our own buildings (3) 50,000 square feet—storage space, our own fleet of trucks, railroad siding, tankcar filling facilities—a complete service from start to finish. We are interested in representing first hand producers only—no jobbers. Reply now—don't delay your sales program in this territory any longer. BOX 696, Oil, Paint and Drug Reporter.

CINCINNATI FIRM established over twenty years and covering the State of Ohio and also Louisville, Kentucky, would be interested in representing A-1 producers of oils, pigments, chemicals and other raw materials. BOX 697, Oil, Paint and Drug Reporter.

Capital Offered

BUSINESS EXECUTIVE offers capital and credit facilities to an established export or import business having good prospects for profitable expansion. BOX 693, Oil, Paint and Drug Reporter.

Equipment Offered

FOR SALE—Two 6x8 ft. pebble mills, 16x40 roller mills, 12x30 roller mills, 9x24 roller mills, 15 to 40-gallon pony mixers, lead mixers. Sell us your surplus equipment. Irving Barcan Company. 30 Church street, New York City.

FOR SALE:—Two Abbe Eureka jar mills, motor driven, 5 and 15 gallons; Gruendler No. 2 master pulverizer, with continuous discharge conveyor; copper, aluminum kettles from 10 to 250 gallons; filter presses, 12 in. to 36 in. square; bottle and tube filling equipment; glass-lined tanks; powder mixers, 50 pounds to 2,000 pounds; Tolhurst centrifugals, 32 in. to 40 in.; partial listing only. Send for complete bulletins. Brill Equipment Corp., 183 Varick street, New York City.

Equipment Offered

FOR SALE—65 one-ton S.O. 2 cylinders, also 2 cradle cars; all in first-class condition. BOX 690, Oil, Paint and Drug Reporter.

FIND what you want right in New York City. Pony mixer, post mixers, Day sifter-mixers, portable mixers, revolvators, jacketed kettles, tanks, three-roller mills, dough mixers. Storms-Harvey Equipment Company, 123 Bleecker street. SPring 7-8955.

FOR SALE—One 6 disc 16½in. scientific filter, one Karl Kiefer 18 spout rotary syphon filler, one 20th century bottle rinser. Perry Equipment & Supply Co., 142 North 10th street, Philadelphia, Pa.

FOR SALE:—One 26-inch tandem Ross stone mill. Absolutely complete, in excellent condition. Hopper; tight and loose pulleys for belt drive; water cooled. Just redressed; operates like new. BOX 692, Oil, Paint and Drug Reporter.

COMPLETE AWNING striping equipment—fountain striping machine with motor and Reeves transmission fountains, winder, etc. Under one thousand dollars. Address BOX 207, Portchester, N. Y.

PEBBLE MILLS: 1 and 4 gal. jar mills; 18-in. Day mushroom mill; 300-gal. rubber-lined vacuum kettle; 300 and 3,500-gal. aluminum stills, direct fired; 20 HP economic boiler. Lawler Engineering Company, Durham avenue and L. V. R. R., Metuchen, N. J.

FOR SALE—Two rubber lined wood tanks in good condition; capacities 4,050 and 3,200 gallons. For further specifications write The Globe Chemical Company, Cincinnati, Ohio.

Equipment Wanted

WANTED—For chemical plant, filter press, jacketed kettle, vacuum dryer, powder mixer, pulverizer. BOX 656, Oil, Paint and Drug Reporter.

PUTTY CHASER not less than 72-inch pan. BOX 695, Oil, Paint and Drug Reporter.

Factories Offered

BRICK FACTORY, one story, 7,500 sq. ft. 18 ft. headroom, concrete floor, live steam available 24 hours per day, railroad siding. Unrestricted district in Brooklyn. The R. L. Kraft Company, Woolworth Building, New York City. COrtlandt 7-9377.

Licensees Wanted

FREE YOURSELF of the uncertain supply and high prices of foreign oils. Save five to fifteen cents per gallon on high and low grade varnishes manufactured with our new exclusive process, patent for which is applied for. We are offering licenses to reputable concerns. Write today for full details of this valuable franchise. BOX 694, Oil, Paint and Drug Reporter.

Materials Offered

QUANTITY OF methyl methacrylate monomer for sale. BOX 676, Oil, Paint and Drug Reporter.

TETRASODIUM PYROPHOSPHATE 3 times as strong as trisodiumphos; 250 pounds thallium metal or sulphate; 10 tons cumar resin; 2 tons chrome green; 2,000 pounds calcium lactate; 500 pounds methyl methacrylate monomer water white. BOX 699, Oil, Paint and Drug Reporter.

Patents Offered

FOR SALE:—Patents and equipment for production of unique caulking compounds. Will sell very reasonable for quick disposal. BOX 698, Oil, Paint and Drug Reporter.

Positions Vacant

TABLET MAN, experienced; must be registered pharmacist; to take charge of department; plant located in New Jersey. State full particulars. BOX 672, Oil, Paint and Drug Reporter.

GENERAL SUPERINTENDENT wanted for paint, varnish and lacquer plant. Want a first class thoroughly experienced and successful executive preferably aged 35 to 45. Excellent opportunity with well established and growing company. Give full particulars about yourself and you will be interviewed promptly. BOX 702, Oil, Paint and Drug Reporter.

Positions Wanted

SALES EXECUTIVE-manager (pharmaceutical chemist); valuable background of national sales and salesmen's training, on industrials, pharmaceuticals, chemicals, surgicals, specialties; aggressive, of highest integrity, engaged, available shortly. Philadelphian, past 40. Salary or part ownership out of salary. Or take over going plant without immediate investment. BOX 677, Oil, Paint and Drug Reporter.

Positions Wanted

EXPERT SHADER—Would like to connect with reliable firm. First class reference, 18 years experience. Will locate anywhere. Can handle men and get production. Can shade anything in paints, enamels and flats. BOX 663, Oil, Paint and Drug Reporter.

OIL CHEMIST, over 3 years' experience; detailed analysis and examination animal and vegetable oils, shortening and nickel catalyst; working knowledge of refining and hydrogenation. Production or sales service preferable. Young, single; will locate anywhere or travel. BOX 668, Oil, Paint and Drug Reporter.

CHEMIST with experience in coated fabrics, nitrocellulose, rubber, synthetics, etc., comprising research, production, and some sales, desires connection inside, or as sales representative. Age 37, at present employed. BOX 700, Oil, Paint and Drug Reporter.

CHEMIST—Production man, 28, single, 3½ years experience in paint and varnish production. Started at bottom as laborer. Knows how to get orders out with speed and efficiency in small and large organization. Seeks position with future. Excellent references. BOX 701, Oil, Paint and Drug Reporter.

Services Offered

CHEMIST and chemical engineers—if you are now unemployed send your complete chronological record of education and experience to Chemist Advisory Council, 300 Madison avenue, New York City.

Surplus Stocks

WILL BUY—Your surplus or off-grade chemicals, oils, waxes, pharmaceuticals, gums, by-products, residues. For quick action phone Mr. Gelb, WAlker 5-4250. Barclay Chemical Company, Inc., 75 Varick street, New York.

HIGHER MARKETS—Sell now. Wanted—surplus or off-grade waxes, chemicals, greases, oils, botanicals, solvents, aromatics, gums, metals. Also wastes, by-products, residues. Single lots. Entire plants. Chemical Service Corp., 237 Fourth avenue, New York. STuyvesant 9-0133.

CHECK INVENTORIES! We purchase any quantity surplus chemicals, colors, pigments, oils, waxes, drugs, pharmaceuticals, and all basic raw materials, as well as by-products, residues and wastes of all kinds. Entire plants bought. Eastern Color & Chemical Co., 143 Nassau street, New York City. COrtlandt 7-7441.

SPECIALS

2—Devine 5 ft. x 33 ft. Rotary Vacuum Dryers.
1—W. & P. Vacuum Mixer, 100 gal.; other W. & P.'s, 2 gal. to 2650 gal.
7—3-roll Roller Mills, up to 16 x 40.
12—Vacuum Shelf Dryers, all sizes.
12—Ball Mills, 10 gal. to 500 gal.
1—Stainless Steel 400 gal. Jacketed Tilting Kettle.
Many other attractive bargains.

2—Nickel Vacuum Stills, 300 gal. with motor driven agitators.
1—Proctor & Schwartz 3-truck Dryer, 720 sq. ft. heating surface.
1—Zaremba Triple effect Evaporator, 2100 sq. ft. per effect.
1—Louisville 5 ft. x 20 ft. Steam Tube Dryer.
1—5 ft. x 22 in. Hardinge Conical Ball Mill.
Send for illustrated bulletin.

LIQUIDATING
FOOD PRODUCTS PLANT
(Name withheld by request)
Cleveland, Ohio
Labellers, Fillers, Cappers, Glass-lined jack. Kettles, Monel jack. Kettle, Nickel Vacuum Stills, Viscolizers, Conveyors, Pumps, etc.
Send for detailed list.

IMPORTANT
Idle machinery ties up capital—takes up valuable space—and depreciates rapidly—turn yours into cash NOW! We want to buy Filter Presses, Kettles, Mixers, Dryers, Pulverizers, Grinders, etc.

Consolidated Products Co., Inc. 13-18 Park Row :: :: New York, N.Y.
SHOPS—335 Doremus Ave., Newark, N.J.

Flint-Eaton Plant Loss Put at $150,000

Decatur, Ill., Jan. 25, 1940

Plans are progressing for the Flint, Eaton & Co., pharmaceutical manufacturer, to resume production to such an extent that the output of drugs will be at two-thirds capacity within two months. The company is securing new manufacturing quarters and raw supplies to replace those destroyed in the recent fire that gutted the company's plant in this city.

Only a shell of the original plant remains, the only portions not razed by the fire being the extreme front portions where the offices were located. Although the research laboratory was destroyed, along with extensive experiments on formulas for new drugs, officials of the company stated that the loss was "well covered" by insurance, and all formulas for drugs produced by the firm were "available." Damage was estimated at $150,000.

G. J. Callister Resigns From Potash Institute

George J. Callister, vice-president and secretary of the American Potash Institute, Washington since 1935, will terminate his services January 31. He will return to Canada and aid his country in a civil capacity during the war. Mr. Callister, who has been associated with the potash industry since 1910, served in France and Belgium during the last conflict.

Ballinger Now With Senn

George Senn, manufacturers' agent on oils, naval stores and raw materials, Philadelphia, has added G. H. Ballinger to his sales department. Mr. Ballinger was formerly Philadelphia branch manager for the American Distilling Company and the Kessler Chemical Corporation. He became affiliated with the Commercial Solvents Corporation in 1934, the year in which the Commercial Solvents organization took over the Rossville Alcohol Company, then an affiliate of the American Distilling Company.

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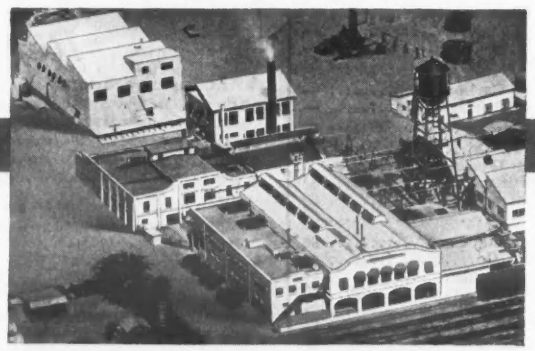

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